

CITY OF ABERDEEN.

---

# REPORT

BY THE

MEDICAL OFFICER OF HEALTH

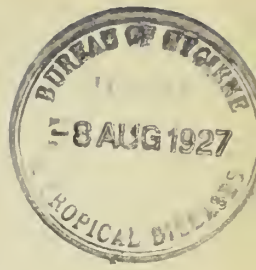
J. PARLANE KINLOCH, M.D.

FOR THE YEAR

1926

*With the Compliments of the Medical  
Officer of Health.*

CITY HEALTH DEPARTMENT,  
ABERDEEN.



CITY OF ABERDEEN.

---

# REPORT

BY THE

MEDICAL OFFICER OF HEALTH

J. PARLANE KINLOCH, M.D.

FOR THE YEAR

1926

G. CORNWALL & SONS, Aberdeen and London.

# CONTENTS.

---

## Chapter 1.

### INFECTIOUS DISEASES.

PAGE

#### (A) *Diseases with a Specific Prophylaxis—*

|                             |    |
|-----------------------------|----|
| 1. Small-pox, . . . . .     | 7  |
| 2. Vaccina, . . . . .       | 7  |
| 3. Scarlet Fever, . . . . . | 7  |
| 4. Diphtheria, . . . . .    | 14 |

#### Susceptibility Tests and Active Immunisation

|                                                 |    |
|-------------------------------------------------|----|
| against Diphtheria and Scarlet Fever, . . . . . | 14 |
| 5. Typhoid and Paratyphoid Fevers, . . . . .    | 14 |
| 6. Venereal Diseases, . . . . .                 | 15 |
| 7. Ophthalmia Neonatorum, . . . . .             | 15 |

#### (B) *Diseases Spread by Discharges from the Mouth and Nose—*

|                                                      |    |
|------------------------------------------------------|----|
| 1. Measles, . . . . .                                | 15 |
| 2. Whooping Cough, . . . . .                         | 15 |
| 3. German Measles, . . . . .                         | 15 |
| 4. Influenza, . . . . .                              | 15 |
| 5. Acute Primary and Influenzal Pneumonia, . . . . . | 15 |
| 6. Meningococcic Meningitis, . . . . .               | 15 |
| 7. Acute Poliomyelitis, . . . . .                    | 16 |
| 8. Epidemic Encephalitis, . . . . .                  | 16 |
| 9. Tuberculosis, . . . . .                           | 16 |
| 10. Chicken-pox, . . . . .                           | 16 |

#### (C) *Diseases Spread by the Excreta—*

|                                              |    |
|----------------------------------------------|----|
| 1. Typhoid and Paratyphoid Fevers, . . . . . | 16 |
| 2. Dysentery, . . . . .                      | 16 |

#### (D) *Diseases Spread by Cutaneous Inoculation—*

|                          |    |
|--------------------------|----|
| 1. Erysipelas, . . . . . | 16 |
| 2. Scabies, . . . . .    | 17 |

#### (E) *Diseases Associated with Child-birth—*

|                                     |    |
|-------------------------------------|----|
| 1. Puerperal Fever, . . . . .       | 17 |
| 2. Ophthalmia Neonatorum, . . . . . | 17 |

#### (F) *Insect-borne Diseases—*

|                                                              |    |
|--------------------------------------------------------------|----|
| 1. Typhus Fever, Trench Fever, Infective Jaundice, . . . . . | 17 |
| 2. Malaria, . . . . .                                        | 17 |

**Chapter II.****ENVIRONMENTAL CONDITIONS.**

|                                                    |    |
|----------------------------------------------------|----|
| 1. Atmospheric Conditions, . . . . .               | 18 |
| 2. Housing Conditions, . . . . .                   | 18 |
| 3. Factories, Workshops, and Workplaces, . . . . . | 20 |
| 4. Offensive Trades, . . . . .                     | 21 |
| 5. Drainage, . . . . .                             | 21 |
| 6. Water Supply, . . . . .                         | 22 |

**Chapter III.****SPECIAL HEALTH SERVICES.**

|                                                    |    |
|----------------------------------------------------|----|
| 1. City Hospital Services, . . . . .               | 24 |
| 2. Tuberculosis Services, . . . . .                | 27 |
| 3. Venereal Diseases Services, . . . . .           | 32 |
| 4. Blind Persons Services, . . . . .               | 36 |
| 5. Maternity and Child Welfare Services, . . . . . | 36 |
| 6. Port Sanitary Services, . . . . .               | 50 |
| 7. Veterinary Services, . . . . .                  | 52 |
| 8. Laboratory Services, . . . . .                  | 55 |

**Chapter IV.****STATISTICAL COMMENTARY.**

|                                                                        |    |
|------------------------------------------------------------------------|----|
| 1. Population, . . . . .                                               | 58 |
| 2. Births, . . . . .                                                   | 59 |
| 3. Marriages, . . . . .                                                | 59 |
| 4. Deaths, . . . . .                                                   | 62 |
| 5. Statistical Data relative to the various Municipal Wards, . . . . . | 66 |
| 6. Comparison between Aberdeen and other Towns, . . . . .              | 68 |

---

## P R E F A C E.

---

*The results of the various experimental investigations of the Health Department during 1926 were incorporated in the Annual Report for 1925, the publication of which was for various reasons delayed until February, 1927. Accordingly the Annual Report for 1926, as herewith submitted, consists merely of a statistical survey of the Health of the City during the year.*

*J. PARLANE KINLOCH,*

*Medical Officer of Health.*



## City of Aberdeen.

---

### REPORT BY THE MEDICAL OFFICER OF HEALTH

*For the Year 1926.*

---

## CHAPTER I.

---

### INFECTIOUS DISEASES.

Table I. gives the death-rate from each of the principal infectious diseases since the commencement of registration. In Table II. the number of cases and deaths for each disease is stated for the successive months of the year. Table III. gives the cases of infectious diseases notified in different sized houses; and Table IV. gives the morbidity and mortality of infectious diseases distributed according to ages and wards of the City. In Table V. the cases and deaths, together with the case-mortality or percentage of deaths to sicknesses in certain diseases, are supplied for each of the years 1916 to 1926, as also the averages for the 1906-1915 and 1916-1925 decades.

#### DISEASES WITH A SPECIFIC PROPHYLAXIS.

##### **Small-pox.**

No cases during 1926.

##### **Vaccinia.**

Table VI., on page 13, shows the percentage of the total surviving children at the end of the calendar year following the year of birth who have remained unvaccinated in each year from 1907 to 1925. In 1925, the proportion of children thus escaping vaccination was 8·2 per cent., as against 7·7 in 1924, and 8·6 in 1923.

##### **Scarlet Fever.**

Of this disease, 843 cases were notified in 1926, as compared with 712 cases in 1925. The case-mortality in 1926 was 0·9, and is the lowest yet recorded. During the 1916-1925 decennium, the average yearly number of cases was 437, and the case-mortality, 2·0.

TABLE I.—ABERDEEN.—DEATHS AT ALL AGES FROM SELECTED CAUSES  
(per 100,000 of population).—Years 1856-1926.\*

| Year.              | Small-pox. | Scarlet Fever. | Diphtheria and Group. | Measles. | Whooping Cough. | Influenza. | Typhus Fever. | Typhoid Fever. | Tuberculous Diseases. |                    | Dis. of Digest. Sys. (incl. Diarrhoea). | Cancer and other Malignant Diseases | Bronchitis. | Pneumonia. | Dis. of the Circ. System, † excluding Cerebral Embolism & Thrombosis |
|--------------------|------------|----------------|-----------------------|----------|-----------------|------------|---------------|----------------|-----------------------|--------------------|-----------------------------------------|-------------------------------------|-------------|------------|----------------------------------------------------------------------|
|                    |            |                |                       |          |                 |            |               |                | Respiratory.          | Other Tuberculous. |                                         |                                     |             |            |                                                                      |
| 1926, . . . .      | 0          | 4              | 13                    | 13       | 9               | 21         | 0             | 0              | 75                    | 40                 | 93                                      | 133                                 | 55          | 80         | 209                                                                  |
| 1925, . . . .      | 0          | 9              | 14                    | 17       | 34              | 11         | 0             | 0              | 97                    | 27                 | 83                                      | 149                                 | 59          | 76         | 193                                                                  |
| 1924, . . . .      | 0          | 2              | 7                     | 35       | 45              | 34         | 0             | 1              | 91                    | 44                 | 63                                      | 145                                 | 85          | 90         | 215                                                                  |
| 1923, . . . .      | 0          | 2              | 5                     | 26       | 3               | 7          | 0             | 2              | 80                    | 43                 | 87                                      | 132                                 | 63          | 76         | 196                                                                  |
| 1922, . . . .      | 0          | 6              | 9                     | 88       | 63              | 64         | 0             | 0              | 89                    | 26                 | 78                                      | 153                                 | 99          | 129        | 191                                                                  |
| 1921, . . . .      | 0          | 5              | 23                    | 1        | 1               | 18         | 0             | 0              | 89                    | 17                 | 94                                      | 129                                 | 96          | 98         | 193                                                                  |
| Average 1921-1925, | 0          | 5              | 12                    | 33       | 29              | 27         | 0             | 1              | 89                    | 31                 | 81                                      | 142                                 | 81          | 94         | 198                                                                  |
| 1920, . . . .      | 0          | 2              | 17                    | 26       | 17              | 34         | 0             | 1              | 98                    | 32                 | 92                                      | 130                                 | 104         | 129        | 169                                                                  |
| 1919, . . . .      | 0          | 2              | 20                    | 1        | 20              | 126        | 0             | 3              | 88                    | 43                 | 66                                      | 124                                 | 100         | 120        | 170                                                                  |
| 1918, . . . .      | 0          | 2              | 13                    | 27       | 33              | 163        | 0             | 9              | 111                   | 51                 | 81                                      | 111                                 | 100         | 157        | 177                                                                  |
| 1917, . . . .      | 0          | 7              | 11                    | 52       | 29              | 22         | 0             | 1              | 116                   | 57                 | 104                                     | 112                                 | 101         | 118        | 175                                                                  |
| 1916, . . . .      | 0          | 17             | 21                    | 6        | 18              | 17         | 0             | 1              | 116                   | 34                 | 93                                      | 126                                 | 89          | 86         | 198                                                                  |
| Average 1916-1920, | 0          | 6              | 16                    | 22       | 23              | 73         | 0             | 3              | 106                   | 43                 | 87                                      | 121                                 | 99          | 122        | 178                                                                  |
| „ 1911-1915,       | 0·2        | 38             | 42                    | 56       | 32              | 16         | 0             | 4              | 111                   | 49                 | 124                                     | 116                                 | 101         | 128        | 184                                                                  |
| „ 1906-1910,       | 0          | 6              | 15                    | 26       | 42              | 20         | 0             | 2              | 116                   | 61                 | 115                                     | 103                                 | 105         | 116        | 180                                                                  |
| „ 1901-1905,       | 0·1        | 8              | 9                     | 41       | 47              | 20         | 2·6           | 3·6            | 138                   | 69                 | 162                                     | 87                                  | 145         | 125        | 179                                                                  |
| „ 1896-1900,       | 0          | 23             | 18                    | 35       | 53              | 29         | 0·2           | 9              | 167                   | 70                 | 210                                     | 87                                  | 172         | 109        | 167                                                                  |
| „ 1891-1895,       | 0·4        | 21             | 22                    | 63       | 52              | 56         | 1·0           | 10             | 181                   | 72                 | 190                                     | 81                                  | 210         | 100        | 156                                                                  |
| „ 1886-1890,       | 0·8        | 14             | 10                    | 80       | 66              | 9          | 1·4           | 15             | 184                   | 67                 | 202                                     | 68                                  | 216         | 100        | 175                                                                  |
| „ 1881-1885,       | 0·2        | 13             | 15                    | 36       | 67              | 1          | 6             | 13             | 204                   | 74                 | 185                                     | 69                                  | 251         | 82         | 159                                                                  |
| „ 1876-1880,       | 0·6        | 35             | 30                    | 28       | 66              | 2          | 19            | 29             | 223                   | 101                | 194                                     | 61                                  | 286         | 72         | 146                                                                  |
| „ 1871-1875,       | 48         | 68             | 30                    | 53       | 68              | 5          | 20            | 35             | 243                   | 107                | 214                                     | 56                                  | 281         | 60         | 136                                                                  |
| „ 1866-1870,       | 3·6        | 71             | 5                     | 50       | 62              | 8          | 62            | 49             | 298                   | 130                | 259                                     | 59                                  | 238         | 70         | 122                                                                  |
| „ 1861-1865,       | 36         | 93             | 49                    | 51       | 62              | 12         | 176           |                | 274                   | 128                | 280                                     | 57                                  | 220         | 59         | 122                                                                  |
| „ 1856-1860,       | 40         | 118            | 54                    | 70       | 69              | 12         | 109           |                | 322                   | 179                | 203                                     | 56                                  | 182         | 58         | 111                                                                  |

\* Corrected for transferred deaths in 1904 and subsequent years. † From 1911 onwards.

TABLE II.—PROGRESS OF INFECTIOUS AND CERTAIN OTHER DISEASES IN YEAR 1926.  
(Not corrected for transferred deaths.)

| DISEASE.                        |             | 1926. |      |        |        |      |       |       |      |       |      |      |      | Whole<br>Year. |
|---------------------------------|-------------|-------|------|--------|--------|------|-------|-------|------|-------|------|------|------|----------------|
|                                 |             | Jan.  | Feb. | March. | April. | May. | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. |                |
| A. Compulsorily Notifiable.     |             |       |      |        |        |      |       |       |      |       |      |      |      |                |
| Small-pox .....                 | { Cases     | ...   | ...  | ...    | ...    | ...  | ...   | ...   | ...  | ...   | ...  | ...  | ...  |                |
|                                 | { Deaths    | ...   | ...  | ...    | ...    | ...  | ...   | ...   | ...  | ...   | ...  | ...  | ...  |                |
| Scarlet Fever .....             | { Cases     | 99    | 88   | 113    | 69     | 59   | 54    | 17    | 48   | 64    | 94   | 76   | 62   |                |
|                                 | { Deaths    | ...   | ...  | ...    | ...    | ...  | ...   | ...   | ...  | ...   | ...  | ...  | ...  |                |
| Diphtheria.....                 | { Cases     | 29    | 23   | 39     | 28     | 19   | 20    | 9     | 18   | 15    | 26   | 35   | 62   |                |
|                                 | { Deaths    | 2     | ...  | 1      | 3      | 1    | 2     | ...   | 1    | ...   | 1    | 4    | 5    |                |
| Typhus Fever .....              | { Cases     | ...   | ...  | ...    | ...    | ...  | ...   | ...   | ...  | ...   | ...  | ...  | ...  |                |
|                                 | { Deaths    | ...   | ...  | ...    | ...    | ...  | ...   | ...   | ...  | ...   | ...  | ...  | ...  |                |
| Enterica Infections.            | { Cases     | ...   | ...  | ...    | 1*     | ...  | ...   | 1     | 1    | ...   | ...  | ...  | ...  |                |
|                                 | { Deaths    | ...   | ...  | ...    | ...    | ...  | ...   | ...   | ...  | ...   | ...  | ...  | 3    |                |
| Dysentery ..                    | { Cases     | 12    | 1    | 9      | 1      | 6    | 1     | 6     | ...  | ...   | 2    | 2    | 4    |                |
|                                 | { Deaths    | ...   | ...  | 1      | ...    | ...  | ...   | ...   | ...  | ...   | ...  | ...  | 1    |                |
| Acute Poliomyelitis...          | { Cases     | 1     | ...  | ...    | ...    | ...  | ...   | ...   | ...  | ...   | 1    | 2    | 1    |                |
|                                 | { Deaths    | ...   | ...  | ...    | ...    | ...  | ...   | ...   | ...  | ...   | ...  | ...  | 5    |                |
| Epidemic Cerebro-               | { Cases     | 1     | ...  | ...    | ...    | ...  | 1     | 1     | ...  | ...   | ...  | ...  | ...  |                |
| Spinal Meningitis               | { Deaths    | ...   | ...  | ...    | ...    | ...  | 1     | ...   | ...  | 1     | ...  | ...  | 3    |                |
| Epidemic                        | { Cases     | ...   | ...  | ...    | ...    | ...  | 1     | ...   | ...  | ...   | ...  | ...  | 2    |                |
| Encephalitis .....              | { Deaths    | ...   | ...  | ...    | ...    | ...  | ...   | ...   | ...  | ...   | ...  | ...  | ...  |                |
| Acute { Primary—Cases           |             | 43    | 51   | 47     | 47     | 40   | 13    | 18    | 14   | 12    | 19   | 34   | 39   |                |
| Pneumonia { Influenzal—Cases    |             | 9     | 3    | 2      | 19     | 9    | 1     | 1     | 1    | ...   | 4    | 5    | 3    |                |
|                                 | { Pulmonary | 19    | 29   | 28     | 27     | 31   | 23    | 13    | 9    | 7     | 12   | 11   | 10   |                |
|                                 | { Deaths    | 5     | 8    | 15     | 14     | 10   | 17    | 14    | 4    | 8     | 15   | 9    | 8    |                |
| Tubercle { Other ...            | { Cases     | 11    | 12   | 17     | 33     | 15   | 9     | 6     | 3    | 3     | 10   | 9    | 9    |                |
|                                 | { Deaths    | 5     | 8    | 7      | 9      | 9    | 3     | 4     | 1    | 4     | 4    | 4    | 8    |                |
| Erysipelas.....                 | { Cases     | 12    | 7    | 4      | 9      | 8    | 9     | 6     | 13   | 14    | 12   | 17   | 9    |                |
|                                 | { Deaths    | 1     | 1    | 1      | ...    | 1    | ...   | ...   | 1    | ...   | ...  | ...  | 5    |                |
| Puerperal Fever .....           | { Cases     | 3     | 1    | 3      | 4      | 5    | ...   | 1     | 2    | 7     | 3    | 4    | 3    |                |
|                                 | { Deaths    | ...   | 1    | ...    | 1      | 1    | ...   | ...   | 1    | ...   | 2    | 2    | 8    |                |
| Ophthal. Neonatorum             | { Cases     | 2     | 6    | 6      | 5      | 4    | 8     | 5     | 4    | 3     | 1    | 2    | 2    |                |
|                                 | { Deaths    | 1     | 1    | ...    | 1      | ...  | ...   | ...   | 2    | 1     | ...  | ...  | 6    |                |
| † Infective Jaundice            | { Cases     | ...   | ...  | ...    | ...    | ...  | ...   | ...   | ...  | ...   | ...  | ...  | ...  |                |
|                                 | { Deaths    | ...   | ...  | ...    | ...    | ...  | ...   | ...   | ...  | ...   | ...  | ...  | ...  |                |
| B. Not Compulsorily Notifiable. |             |       |      |        |        |      |       |       |      |       |      |      |      |                |
| † Measles .....                 | { Cases     | 6     | 39   | 119    | 189    | 330  | 231   | 17    | 5    | 8     | 14   | 18   | 15   |                |
|                                 | { Deaths    | ...   | ...  | ...    | 6      | 5    | 6     | 1     | ...  | ...   | ...  | ...  | 2    |                |
| German Measles .....            | { Cases     | 1     | 5    | 3      | 1      | 2    | ...   | ...   | 1    | 4     | 1    | 3    | 4    |                |
|                                 | { Deaths    | ...   | ...  | ...    | ...    | ...  | ...   | ...   | ...  | ...   | ...  | ...  | ...  |                |
| † Whooping Cough.....           | { Cases     | 11    | 17   | 23     | 50     | 54   | 56    | 16    | 53   | 28    | 15   | 21   | 18   |                |
|                                 | { Deaths    | ...   | ...  | 1      | ...    | 5    | 1     | 2     | ...  | 3     | ...  | ...  | 3    |                |
| Chicken Pox ..                  | { Cases     | 34    | 76   | 59     | 34     | ...  | 11    | 4     | 1    | 2     | 7    | 23   | 11   |                |
|                                 | { Deaths    | ...   | ...  | ...    | ...    | ...  | ...   | ...   | ...  | ...   | ...  | ...  | ...  |                |
| TOTAL .....                     | { Cases     | 294   | 359  | 472    | 518    | 584  | 437   | 121   | 176  | 168   | 221  | 262  | 252  |                |
|                                 | { Deaths    | 13    | 18   | 28     | 35     | 33   | 30    | 21    | 7    | 18    | 20   | 19   | 30   |                |
| Influenza.....                  | { Deaths    | 0     | 1    | 1      | 10     | 4    | 0     | 0     | 0    | 1     | 0    | 1    | 0    |                |
| Do. and Pneumonia, do.          |             | 1     | 2    | 1      | 4      | 2    | 2     | 0     | 0    | 1     | 1    | 0    | 0    |                |
| Do. and Bronchitis, do.         |             | 0     | 0    | 0      | 2      | 0    | 0     | 0     | 0    | 0     | 0    | 0    | 0    |                |
| Pneumonia .....                 | { Deaths    | 19    | 18   | 16     | 17     | 15   | 6     | 7     | 4    | 6     | 6    | 14   | 16   |                |
| Bronchitis .....                | { do.       | 8     | 6    | 8      | 18     | 8    | 4     | 3     | 0    | 4     | 3    | 6    | 13   |                |

\* 1 case of paratyphoid.

† Compulsorily notifiable from 1881 to 1903; now reported mainly by School Attendance Officers.

TABLE III.—ABERDEEN.—CASES OF INFECTIOUS DISEASES NOTIFIED IN DIFFERENT SIZED HOUSES IN YEAR 1926.

| DISEASE.                               | Number of Cases in Houses of |             |            |            |                     | No. of Cases in Institutions, &c. | Case Rate per 1,000 Houses of |            |           |           |                     |
|----------------------------------------|------------------------------|-------------|------------|------------|---------------------|-----------------------------------|-------------------------------|------------|-----------|-----------|---------------------|
|                                        | 1 Room                       | 2 Rooms     | 3 Rooms    | 4 Rooms    | 5 Rooms and upwards |                                   | 1 Room                        | 2 Rooms    | 3 Rooms   | 4 Rooms   | 5 Rooms and upwards |
| <b>A. Compulsorily Notifiable.</b>     |                              |             |            |            |                     |                                   |                               |            |           |           |                     |
| Small pox, . . . .                     | ...                          | ..          | ...        | ...        | ...                 | ...                               | ...                           | ...        | ...       | ...       | ...                 |
| Scarlet Fever, . . .                   | 75                           | 381         | 212        | 60         | 74                  | 41                                | 24                            | 29         | 20        | 14        | 15                  |
| Diphtheria, . . . .                    | 39                           | 133         | 96         | 19         | 30                  | 15                                | 9                             | 10         | 9         | 5         | 6                   |
| Typhus Fever, . . .                    | ..                           | ...         | ..         | ..         | ...                 | ...                               | ...                           | ..         | ...       | ...       | ...                 |
| Typhoid or Enteric, .                  | ...                          | ...         | ...        | ...        | 1                   | ...                               | ...                           | ...        | ...       | ..        | 0·2                 |
| Paratyphoid "B," .                     | ...                          | ...         | ...        | ...        | ...                 | 2                                 | ...                           | ...        | ..        | ...       | ..                  |
| Dysentery, . . . .                     | ...                          | 4           | 1          | ...        | 7                   | 32                                | ...                           | 0·3        | 0·1       | ...       | 1                   |
| Acute Poliomyelitis, .                 | 2                            | 2           | 1          | ...        | ..                  | ...                               | 1                             | 0·2        | 0·1       | ...       | ..                  |
| Epidemic Cerebro Spinal Meningitis,    | ...                          | 2           | ...        | ...        | ..                  | 1                                 | ...                           | 0·2        | ...       | ...       | ...                 |
| Epidemic Encephalitis, .               | ...                          | ...         | ...        | ...        | ...                 | ...                               | ...                           | ...        | ...       | ...       | ...                 |
| Acute Primary Pneumonia,               | 62                           | 174         | 84         | 22         | 21                  | 14                                | 19                            | 13         | 8         | 5         | 4                   |
| Acute Influenzal Pneumonia,            | 4                            | 20          | 15         | 7          | 7                   | 4                                 | 1                             | 2          | 1         | 2         | 1                   |
| Pulmonary Tuberculosis,                | 23                           | 71          | 72         | 25         | 13                  | 15                                | 7                             | 5          | 7         | 6         | 3                   |
| Other Tuberculosis, .                  | 21                           | 54          | 35         | 9          | 7                   | 11                                | 7                             | 4          | 3         | 2         | 1                   |
| Erysipelas, . . . .                    | 12                           | 49          | 31         | 10         | 14                  | 4                                 | 4                             | 4          | 3         | 2         | 3                   |
| Puerperal Fever, . .                   | 9                            | 20          | 3          | 3          | 1                   | ...                               | 3                             | 2          | 0·3       | 1         | 0·2                 |
| Ophthalmia Neonatorum,                 | 17                           | 19          | 8          | 2          | ...                 | 2                                 | 5                             | 1          | 1         | 1         | ...                 |
| Malaria, . . . .                       | 2                            | 2           | ...        | ...        | 1                   | 1                                 | 1                             | 0·2        | ...       | ...       | 0·2                 |
| <b>B. Not Compulsorily Notifiable.</b> |                              |             |            |            |                     |                                   |                               |            |           |           |                     |
| Measles, . . . .                       | 177                          | 492         | 259        | 68         | 36                  | 19                                | 37                            | 37         | 25        | 16        | 7                   |
| German Measles, . .                    | 4                            | 12          | 5          | 1          | 2                   | 1                                 | 1                             | 1          | 1         | 0·2       | 0·4                 |
| Whooping Cough, . .                    | 49                           | 190         | 90         | 24         | 4                   | 5                                 | 15                            | 14         | 8         | 6         | 1                   |
| Chicken Pox, . . .                     | 25                           | 140         | 64         | 26         | 8                   | 2                                 | 8                             | 11         | 6         | 6         | 2                   |
| <b>Total, . . . .</b>                  | <b>452</b>                   | <b>1765</b> | <b>976</b> | <b>276</b> | <b>226</b>          | <b>169</b>                        | <b>142</b>                    | <b>134</b> | <b>92</b> | <b>66</b> | <b>45</b>           |

TABLE IV.—ABERDEEN.—MORBIDITY AND MORTALITY OF INFECTIOUS DISEASES  
DURING 1926.

(Distributed according to Ages and Wards of City.)

| DISEASE.                                        | NO. OF CASES AND DEATHS AT<br>VARIOUS AGE-PERIODS. |               |                |                |              |              | CASES AND DEATHS PER 10,000 OF POPULATION IN EACH<br>WARD OF CITY.* |             |               |                |             |               |            |           |              |            |        |
|-------------------------------------------------|----------------------------------------------------|---------------|----------------|----------------|--------------|--------------|---------------------------------------------------------------------|-------------|---------------|----------------|-------------|---------------|------------|-----------|--------------|------------|--------|
|                                                 | Under<br>5<br>years                                | 5-15<br>years | 15-25<br>years | 25-45<br>years | 45+<br>years | All<br>Ages. | Woodside.                                                           | St. Machar. | St. Andrew's. | St. Clement's. | Greyfriars. | St. Nicholas. | Rosemount. | Rubislaw. | Ruthrieston. | Ferryhill. | Torry. |
| Population (in thou-<br>sands), Census 1921     | ...                                                | ...           | ...            | ...            | ...          | ...          | 9.5                                                                 | 14.3        | 17.6          | 11.2           | 13.7        | 14.5          | 16.6       | 19.0      | 16.4         | 14.7       | 11.3   |
| <b>A. Compulsorily Notifiable.</b>              |                                                    |               |                |                |              |              |                                                                     |             |               |                |             |               |            |           |              |            |        |
| Small-pox .....                                 | { Cases                                            | ...           | ...            | ...            | ...          | ...          | ...                                                                 | ...         | ...           | ...            | ...         | ...           | ...        | ...       | ...          | ...        | ...    |
|                                                 | { Deaths                                           | ...           | ...            | ...            | ...          | ...          | ...                                                                 | ...         | ...           | ...            | ...         | ...           | ...        | ...       | ...          | ...        | ...    |
| Scarlet Fever .....                             | { Cases                                            | 213           | 502            | 77             | 44           | 7            | 843                                                                 | 42          | 49            | 56             | 53          | 51            | 59         | 63        | 42           | 48         | 46     |
|                                                 | { Deaths                                           | 2             | 5              | 1              | ...          | ...          | 8                                                                   | 1           | 0.7           | 0.6            | 1           | 0.7           | 1.4        | ...       | ...          | ...        | 1      |
| Diphtheria.....                                 | { Cases                                            | 104           | 169            | 29             | 15           | 6            | 323                                                                 | 7           | 46            | 20             | 21          | 27            | 17         | 20        | 14           | 19         | 11     |
|                                                 | { Deaths                                           | 8             | 12             | ...            | ...          | ...          | 20                                                                  | ...         | 4             | 0.6            | 3           | 2             | 1          | 0.6       | 0.5          | 0.6        | 0.7    |
| Typhus Fever .....                              | { Cases                                            | ...           | ...            | ...            | ...          | ...          | ...                                                                 | ...         | ...           | ...            | ...         | ...           | ...        | ...       | ...          | ...        | ...    |
|                                                 | { Deaths                                           | ...           | ...            | ...            | ...          | ...          | ...                                                                 | ...         | ...           | ...            | ...         | ...           | ...        | ...       | ...          | ...        | ...    |
| Typhoid and<br>Paratyphoid .....                | { Cases                                            | ...           | ...            | ...            | 2            | 1            | 3                                                                   | ...         | ...           | 2              | ...         | ...           | ...        | ...       | 1            | ...        | ...    |
|                                                 | { Deaths                                           | ...           | ...            | ...            | ...          | ...          | ...                                                                 | ...         | ...           | ...            | ...         | ...           | ...        | ...       | ...          | ...        | ...    |
| Dysentery .....                                 | { Cases                                            | 33            | 1              | 4              | 6            | ...          | 44                                                                  | ...         | ...           | 10             | 2           | 1             | ...        | 1         | 7            | 3          | 1      |
|                                                 | { Deaths                                           | ...           | ...            | ...            | 1            | ...          | 1                                                                   | ...         | ...           | ...            | 0.7         | ...           | ...        | ...       | ...          | ...        | ...    |
| Acute<br>Poliomyelitis .....                    | { Cases                                            | 4             | 1              | ...            | ...          | ...          | 5                                                                   | ...         | ...           | 1              | 1           | 1             | ...        | ...       | ...          | ...        | ...    |
|                                                 | { Deaths                                           | ...           | ...            | ...            | ...          | ...          | ...                                                                 | ...         | ...           | ...            | ...         | ...           | ...        | ...       | ...          | ...        | ...    |
| Epidemic<br>Cerebro Spinal-<br>Meningitis ..... | { Cases                                            | 2             | ...            | 1              | ...          | ...          | 3                                                                   | ...         | ...           | ...            | 1           | ...           | ...        | ...       | 1            | ...        | ...    |
|                                                 | { Deaths                                           | 2             | ...            | ...            | ...          | ...          | 2                                                                   | ...         | ...           | ...            | 1           | ...           | ...        | ...       | ...          | ...        | ...    |
| Epidemic<br>Encephalitis .....                  | { Cases                                            | ...           | ...            | ...            | ...          | ...          | ...                                                                 | ...         | ...           | ...            | ...         | ...           | ...        | ...       | ...          | ...        | ...    |
|                                                 | { Deaths                                           | ...           | ...            | ...            | ...          | ...          | ...                                                                 | ...         | ...           | ...            | ...         | ...           | ...        | ...       | ...          | ...        | ...    |
| Acute Pneumonia—                                |                                                    |               |                |                |              |              |                                                                     |             |               |                |             |               |            |           |              |            |        |
| (a) Primary ...                                 | { Cases                                            | 172           | 56             | 42             | 55           | 52           | 377                                                                 | 23          | 29            | 28             | 26          | 39            | 25         | 24        | 12           | 13         | 22     |
|                                                 | { Deaths                                           | 49            | 2              | 5              | 12           | 29           | 97                                                                  | 4           | 8             | 7              | 8           | 11            | 5          | 8         | 3            | 2          | 5      |
| (b) Influenzal .....                            | { Cases                                            | 3             | 11             | 8              | 15           | 20           | 57                                                                  | ...         | 11            | 6              | 4           | 3             | 4          | 2         | 1            | 2          | 3      |
|                                                 | { Deaths                                           | ...           | ...            | 1              | 3            | 9            | 13                                                                  | ...         | ...           | 0.6            | 1           | 0.7           | 3          | 0.6       | ...          | 2          | 0.7    |
| Tuberculous Diseases—                           |                                                    |               |                |                |              |              |                                                                     |             |               |                |             |               |            |           |              |            |        |
| (a) Respiratory .....                           | { Cases                                            | 14            | 45             | 43             | 77           | 40           | 219                                                                 | 9           | 14            | 20             | 17          | 18            | 10         | 16        | 9            | 12         | 12     |
|                                                 | { Deaths                                           | 2             | 3              | 17             | 58           | 39           | 119                                                                 | 6           | 6             | 12             | 3           | 10            | 7          | 8         | 4            | 7          | 5      |
| (b) Other .....                                 | { Cases                                            | 61            | 34             | 22             | 12           | 8            | 137                                                                 | 4           | 11            | 8              | 8           | 11            | 8          | 10        | 6            | 6          | 11     |
|                                                 | { Deaths                                           | 37            | 9              | 5              | 4            | 8            | 63                                                                  | 5           | 4             | 2              | 5           | 4             | 6          | 2         | 3            | 2          | 3      |
| Erysipelas .....                                | { Cases                                            | 10            | 3              | 10             | 37           | 60           | 120                                                                 | 6           | 12            | 7              | 6           | 9             | 8          | 7         | 5            | 9          | 5      |
|                                                 | { Deaths                                           | 2             | ...            | ...            | 2            | 1            | 5                                                                   | ...         | ...           | ...            | ...         | 1.4           | ...        | 1         | ...          | ...        | 0.7    |
| Puerperal<br>Fever .....                        | { Cases                                            | ...           | ...            | 11             | 25           | ...          | 36                                                                  | 1           | 3             | 5              | 3           | 3             | 3          | 2         | 1            | 1          | 3      |
|                                                 | { Deaths                                           | ...           | ...            | 2              | 6            | ...          | 8                                                                   | 1           | 0.7           | 0.6            | 2           | ...           | ...        | 1         | ...          | ...        | 1      |
| Ophthalmia<br>Neonatorum .....                  | { Cases                                            | 48            | ...            | ...            | ...          | ...          | 48                                                                  | ...         | 1             | 3              | 5           | 7             | 5          | 4         | 0.5          | 3          | 2      |
|                                                 | { Deaths                                           | ...           | ...            | ...            | ...          | ...          | ...                                                                 | ...         | ...           | ...            | ...         | ...           | ...        | ...       | ...          | ...        | ...    |
| Malaria .....                                   | { Cases                                            | 1             | 1              | ...            | 4            | ...          | 6                                                                   | ...         | ...           | ...            | 1           | ...           | 1          | 0.5       | ...          | 1          | ...    |
|                                                 | { Deaths                                           | ...           | ...            | ...            | ...          | ...          | ...                                                                 | ...         | ...           | ...            | ...         | ...           | ...        | ...       | ...          | ...        | ...    |
| <b>B. Not Compulsorily Notifiable</b>           |                                                    |               |                |                |              |              |                                                                     |             |               |                |             |               |            |           |              |            |        |
| Measles .....                                   | { Cases                                            | 295           | 678            | 15             | 2            | 1            | 991                                                                 | 26          | 63            | 92             | 95          | 87            | 72         | 55        | 31           | 30         | 54     |
|                                                 | { Deaths                                           | 18            | 2              | ...            | ...          | ...          | 20                                                                  | ...         | ...           | 2              | 5           | 0.7           | 2          | 0.6       | ...          | 3          | 3      |
| German<br>Measles .....                         | { Cases                                            | 6             | 16             | 3              | ...          | ...          | 25                                                                  | ...         | 2             | 2              | ...         | 3             | 1          | 1         | 1            | 3          | ...    |
|                                                 | { Deaths                                           | ...           | ...            | ...            | ...          | ...          | ...                                                                 | ...         | ...           | ...            | ...         | ...           | ...        | ...       | ...          | ...        | ...    |
| Whooping<br>Cough .....                         | { Cases                                            | 165           | 195            | 2              | ...          | ...          | 362                                                                 | 14          | 41            | 36             | 49          | 49            | 14         | 12        | 4            | 12         | 7      |
|                                                 | { Deaths                                           | 13            | 2              | ...            | ...          | ...          | 15                                                                  | 1           | 0.7           | 2              | 1           | 1             | 1          | 0.6       | ...          | ...        | 3      |
| Chicken Pox .....                               | { Cases                                            | 46            | 217            | 2              | ...          | ...          | 265                                                                 | 19          | 17            | 13             | 17          | 9             | 12         | 13        | 19           | 20         | 16     |
|                                                 | { Deaths                                           | ...           | ...            | ...            | ...          | ...          | ...                                                                 | ...         | ...           | ...            | ...         | ...           | ...        | ...       | ...          | ...        | ...    |
| Total                                           | { Cases                                            | 1177          | 1929           | 269            | 294          | 195          | 3864                                                                | 151         | 299           | 307            | 310         | 319           | 239        | 231       | 153          | 183        | 197    |
|                                                 | { Deaths                                           | 133           | 35             | 31             | 86           | 86           | 371                                                                 | 18          | 24            | 27             | 29          | 32            | 28         | 22        | 11           | 14         | 18     |

\* Deaths occurring in Hospitals are assigned to the Ward of the City from which the cases were originally removed.

TABLE V.—ABERDEEN.—MORBIDITY AND MORTALITY OF INFECTIOUS DISEASES  
(*Excluding Tuberculosis*)

DURING EACH YEAR FROM 1916 TO 1926.

(*Not corrected for transferred deaths.*)

| DISEASE.                                        | 1926                       | 1925 | 1924 | 1923 | 1922 | 1921 | 1920 | 1919 | 1918 | 1917 | 1916 | ANNUAL<br>AVERAGE<br>1916 to 1926 |        |
|-------------------------------------------------|----------------------------|------|------|------|------|------|------|------|------|------|------|-----------------------------------|--------|
|                                                 |                            |      |      |      |      |      |      |      |      |      |      | 1916 to 1926                      | 1915   |
| <b>A. Compulsorily Notifiable.</b>              |                            |      |      |      |      |      |      |      |      |      |      |                                   |        |
| Small-pox, {                                    | No. of Cases, .....        | 0    | 1    | 1    | 0    | 0    | 0    | 0    | 8    | 0    | 0    | 1.1                               | 0.7    |
|                                                 | No. of Deaths, ...         | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0.0                               | 0.1    |
|                                                 | Percent. of Deaths         | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0.0                               | 14.3   |
| Scarlet<br>Fever, ... {                         | No. of Cases, .....        | 843  | 712  | 197  | 271  | 310  | 706  | 409  | 270  | 290  | 283  | 917                               | 1050.2 |
|                                                 | No. of Deaths, ...         | 8    | 15   | 3    | 4    | 9    | 8    | 4    | 3    | 11   | 27   | 8.8                               | 36.1   |
|                                                 | Percent. of Deaths         | 0.9  | 2.1  | 1.5  | 1.5  | 2.9  | 1.1  | 1.0  | 1.5  | 3.9  | 2.9  | 2.0                               | 3.4    |
| Diphtheria, {                                   | No. of Cases, .....        | 323  | 432  | 286  | 189  | 292  | 733  | 560  | 561  | 357  | 338  | 572                               | 682.1  |
|                                                 | No. of Deaths, ...         | 20   | 22   | 11   | 8    | 14   | 36   | 29   | 32   | 21   | 18   | 34                                | 48.4   |
|                                                 | Percent. of Deaths         | 6.2  | 5.1  | 3.8  | 4.2  | 4.8  | 4.9  | 5.2  | 5.7  | 5.9  | 5.3  | 5.9                               | 7.1    |
| Typhus<br>Fever, ... {                          | No. of Cases, .....        | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0                                 | 0.3    |
|                                                 | No. of Deaths, ...         | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0                                 | 0      |
|                                                 | Percent. of Deaths         | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0                                 | 0      |
| Typhoid<br>and Para-<br>typhoid, {              | No. of Cases, .....        | 3    | 40   | 9    | 21   | 8    | 7    | 8    | 23   | 102  | 1    | 10                                | 32.9   |
|                                                 | No. of Deaths, ...         | 0    | 0    | 1    | 3    | 0    | 0    | 2    | 5    | 14   | 1    | 2                                 | 5.0    |
|                                                 | Percent. of Deaths         | 0    | 0    | 11.1 | 14.3 | 0    | 0    | 25.0 | 13.7 | 100  | 20.0 | 12.2                              | 15.2   |
| †Dysentery, {                                   | No. of Cases, ...          | 44   | 15   | 2    | 0    | 6    | 24   | 17   | 7    | ...  | ...  | ...                               | ...    |
|                                                 | No. of Deaths, ...         | 1    | 0    | 0    | 0    | 1    | 7    | 4    | 0    | ...  | ...  | ...                               | ...    |
| *Acute Polio-<br>myelitis, ... {                | No. of Cases, .....        | 5    | 5    | 6    | 0    | 9    | 8    | 5    | 1    | 2    | 10   | 7.9                               | 12.5   |
|                                                 | No. of Deaths, ...         | 0    | 0    | 0    | 0    | 0    | 2    | 0    | 1    | 1    | 0    | 4                                 | 0.8    |
| Epidemic<br>Cerebro-<br>Spinal<br>Meningitis, { | No. of Cases, .....        | 3    | 1    | 4    | 5    | 3    | 5    | 3    | 12   | 4    | 2    | 5                                 | 6.3    |
|                                                 | No. of Deaths, ...         | 2    | 0    | 3    | 3    | 2    | 3    | 1    | 10   | 4    | 2    | 2                                 | 4.1    |
| †Epidemic<br>Encephalitis {                     | No. of Cases, .....        | 0    | 9    | 7    | 0    | 0    | 3    | ...  | ...  | ...  | ...  | ...                               | ...    |
|                                                 | No. of Deaths, ...         | 0    | 0    | 3    | 0    | 0    | 1    | ...  | ...  | ...  | ...  | ...                               | ...    |
| †Acute { Pri-<br>Pneu- mary, {                  | No. of Cases, ...          | 377  | 497  | 383  | 335  | 404  | 354  | 393  | 109  | ...  | ...  | ...                               | ...    |
|                                                 | No. of Deaths, ...         | 97   | 102  | 121  | 107  | 179  | 131  | 190  | 50   | ...  | ...  | ...                               | ...    |
|                                                 | Influ- { No. of Cases, ... | 57   | 39   | 77   | 17   | 141  | 56   | 87   | 15   | ...  | ...  | ...                               | ...    |
| monia, { enzal, {                               | No. of Deaths, ...         | 13   | 6    | 29   | 6    | 64   | 10   | 32   | 1    | ...  | ...  | ...                               | ...    |
|                                                 | No. of Cases, .....        | 120  | 124  | 92   | 110  | 110  | 170  | 158  | 141  | 102  | 129  | 125                               | 126.1  |
| Erysipelas, {                                   | No. of Deaths, ...         | 5    | 9    | 4    | 4    | 11   | 4    | 6    | 2    | 6    | 9    | 4                                 | 5.7    |
|                                                 | No. of Cases, .....        | 36   | 18   | 15   | 15   | 16   | 13   | 13   | 10   | 8    | 12   | 11                                | 11.4   |
| Puerperal {                                     | No. of Deaths, ...         | 8    | 10   | 8    | 8    | 13   | 6    | 5    | 1    | 6    | 8    | 5                                 | 7.0    |
|                                                 | No. of Cases, .....        | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...                               | ...    |
| *Ophthalmia<br>Neonatorum {                     | No. of Cases, .....        | 48   | 59   | 69   | 63   | 47   | 100  | 112  | 99   | 39   | 42   | 40                                | 67.0   |
|                                                 | No. of Deaths, ...         | 6    | 4    | 3    | 3    | 5    | 55   | 138  | 77   | ...  | ...  | ...                               | ...    |
| †Malaria, .... {                                | No. of Cases, .....        | 0    | 1    | 0    | 0    | 0    | 1    | 1    | 0    | ...  | ...  | ...                               | ...    |
|                                                 | No. of Deaths, ...         | 0    | 0    | 0    | 0    | 0    | 0    | 2    | 4    | ...  | ...  | ...                               | ...    |
| †Trench {                                       | No. of Cases, .....        | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | ...  | ...  | ...                               | ...    |
|                                                 | No. of Deaths, ...         | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | ...  | ...  | ...                               | ...    |
| ‡Infective Jaundice                             | .....                      | 0    | 0    | 0    | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...                               | ...    |
| <b>B. Not Compulsorily Notifiable.</b>          |                            |      |      |      |      |      |      |      |      |      |      |                                   |        |
| Measles, ... {                                  | No. of Cases, ...          | 991  | 1322 | 1488 | 594  | 3684 | 44   | 1072 | 306  | 788  | 1800 | 183                               | 1128.1 |
|                                                 | No. of Deaths, ...         | 20   | 27   | 56   | 41   | 142  | 2    | 41   | 2    | 43   | 86   | 10                                | 45.0   |
|                                                 | Percent. of Deaths         | 2.0  | 2.0  | 3.8  | 6.9  | 3.9  | 4.5  | 3.8  | 0.7  | 5.5  | 4.8  | 5.5                               | 4.9    |
| German<br>Measles, {                            | No. of Cases, .....        | 25   | 362  | 111  | 2    | 11   | 4    | 73   | 42   | 21   | 357  | 9                                 | 99.2   |
|                                                 | No. of Deaths, ...         | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 1    | 2    | 0                                 | 0.3    |
|                                                 | No. of Cases, .....        | 362  | 933  | 1712 | 87   | 1444 | 305  | 325  | 713  | 777  | 956  | 307                               | 755.9  |
| Whooping<br>Cough, ... {                        | No. of Deaths, ...         | 15   | 53   | 71   | 5    | 101  | 2    | 28   | 31   | 54   | 48   | 29                                | 42.2   |
|                                                 | Percent. of Deaths         | 4.1  | 5.7  | 4.1  | 5.7  | 7.0  | 0.7  | 8.6  | 4.3  | 6.9  | 5.0  | 9.4                               | 5.6    |
|                                                 | No. of Cases, .....        | 265  | 266  | 318  | 255  | 46   | 725  | 256  | ...  | ...  | ...  | ...                               | ...    |
| §Chicken<br>Pox, .... {                         | No. of Deaths, ...         | 0    | 0    | 0    | 1    | 0    | 3    | 0    | ...  | ...  | ...  | ...                               | ...    |

\* Notification commenced May, 1913.

† Notification commenced Aug., 1919.

‡ Notification commenced Aug., 1921.

§ Compulsorily notifiable from May, 1920, to Sept., 1921, and from July to December, 1923.

¶ Compulsorily notifiable from 26th December, 1924.

‡ Compulsory notification ceased February, 1903.

TABLE VI.—ABERDEEN.—STATEMENT OF NUMBER OF DECLARATIONS OF CONSCIENTIOUS OBJECTION  
TO VACCINATION.

| Year. | Registered<br>Births. | Deaths<br>before<br>Vaccination | Survivors. | Con-<br>scientious<br>Objectors. | Per-<br>centage. | Year. | Registered<br>Births. | Deaths<br>before<br>Vaccination | Survivors. | Con-<br>scientious<br>Objectors. | Per-<br>centage. | Year. | Registered<br>Births. | Deaths<br>before<br>Vaccination | Survivors. | Con-<br>scientious<br>Objectors. | Per-<br>centage. |
|-------|-----------------------|---------------------------------|------------|----------------------------------|------------------|-------|-----------------------|---------------------------------|------------|----------------------------------|------------------|-------|-----------------------|---------------------------------|------------|----------------------------------|------------------|
| 1907  | 4504                  | 470                             | 4034       | 84                               | 2.1              | 1914  | 4041                  | 481                             | 3560       | 413                              | 11.6             | 1921  | 4326                  | 457                             | 3869       | 364                              | 9.4              |
| 1908  | 4450                  | 511                             | 3939       | 219                              | 5.6              | 1915  | 3837                  | 483                             | 3354       | 412                              | 12.3             | 1922  | 4038                  | 398                             | 3640       | 348                              | 9.6              |
| 1909  | 4492                  | 526                             | 3966       | 339                              | 8.5              | 1916  | 3627                  | 401                             | 3226       | 345                              | 10.7             | 1923  | 3847                  | 317                             | 3530       | 305                              | 8.6              |
| 1910  | 4300                  | 448                             | 3852       | 362                              | 9.4              | 1917  | 2966                  | 326                             | 2640       | 347                              | 13.1             | 1924  | 3527                  | 352                             | 3175       | 246                              | 7.7              |
| 1911  | 4028                  | 478                             | 3550       | 406                              | 11.4             | 1918  | 2817                  | 351                             | 2466       | 260                              | 10.5             | 1925  | 3535                  | 324                             | 3211       | 262                              | 8.2              |
| 1912  | 4152                  | 511                             | 3641       | 478                              | 13.1             | 1919  | 3481                  | 357                             | 3124       | 357                              | 11.4             |       |                       |                                 |            |                                  |                  |
| 1913  | 3872                  | 467                             | 3405       | 491                              | 14.4             | 1920  | 5010                  | 500                             | 4510       | 290                              | 6.4              |       |                       |                                 |            |                                  |                  |

### Diphtheria.

This disease showed a decrease in prevalence in 1926 as compared with 1925, there being 323 cases, as against 432 in 1925. The case-mortality for 1926 was 6·2 per cent., as against 5·1 in 1925. The annual average number of cases during the 1916-1925 decennium was 432, with a case-mortality of 5·2 per cent.

Of contacts bacteriologically examined, 0·5 per cent. of the swabbings gave a positive finding. During the 1916-1925 decennium, the percentage of positive swabbings averaged 3·0.

### SUSCEPTIBILITY TESTS AND ACTIVE IMMUNISATION AGAINST DIPHTHERIA AND SCARLET FEVER.

In Chapter I. of the 1925 Annual Report, in a paper relating to "The Newer Knowledge of Scarlet Fever and Diphtheria," detailed information is given of the immunisation campaign against diphtheria and scarlet fever.

Table VII. relates to the immunisation services provided by the staff of the Health Department for the year 1926:—

TABLE VII.—DIPHTHERIA AND SCARLET FEVER—SUSCEPTIBILITY TESTS AND ACTIVE IMMUNISATION BY CITY HEALTH DEPARTMENT. YEAR 1926.

|                                                               | City Hospital. |      |          |      | Child<br>Welfare<br>Centres. | Schools. |      | Out-<br>Patients. |      |
|---------------------------------------------------------------|----------------|------|----------|------|------------------------------|----------|------|-------------------|------|
|                                                               | Nurses.        |      | In-Pats. |      |                              |          |      |                   |      |
|                                                               | Pos.           | Neg. | Pos.     | Neg. |                              | Pos.     | Neg. | Pos.              | Neg. |
| Schick Tests, . . . . .                                       | 47             | 81   | 65       | 89   | —                            | 406      | 116  | 480               | 103  |
| Dick Tests, . . . . .                                         | 6              | 125  | 1        | 9    | —                            | 395      | 122  | 398               | 209  |
| Diphtheria Prophylactic Injections, . .                       | 152            |      | 1,050    |      | —                            | 354      |      | 422               |      |
| Scarlatina Prophylactic Injections, . .                       | 15             |      | 1        |      | 3                            | 270      |      | 112               |      |
| Combined Diphtheria and Scarlatina<br>Prophylactic Injections | 22             |      | 62       |      | 685                          | 1,284    |      | 2,903             |      |

In addition to the immunising services provided by the staff of the Health Department, medical practitioners of the City, during the year 1926, carried out a total of 314 Schick tests and 1,069 Dick tests. They immunised a total of 132 persons with the diphtheria prophylactic, 293 persons with the scarlatina prophylactic, and 1,800 persons with the combined diphtheria and scarlatina prophylactic.

### Typhoid and Paratyphoid Fevers.

Two cases of typhoid fever were reported in 1926, neither of which ended fatally. In the preceding decennium, there was an annual average of 23 cases and 3 deaths.

In both cases the patient was a seaman, but there was no association between the cases, and no known source of infection.

One case of paratyphoid fever was notified in 1926, in a male aged 66 years, and the source of infection was not determined.

### **Venereal Diseases.**

A detailed analysis of cases of venereal diseases which have come to the knowledge of the Health Department is given in the section of this Report dealing with the Venereal Diseases Services. During the year there were 149 fresh cases of syphilis, 277 of gonorrhœa, 1 of soft chancre, and 8 of mixed infection.

### **Ophthalmia Neonatorum.**

This disease was responsible for 48 cases during 1926, as compared with an average annual number of 67 during the preceding ten years.

## **DISEASES SPREAD BY DISCHARGES FROM THE MOUTH AND NOSE.**

### **Measles.**

The number of cases of measles coming to the knowledge of the Health Department in 1926 was 991, the average yearly number of cases during the 1916-1925 decennium being 1,128. This disease was prevalent in epidemic form from March to June, when a total of 869 cases was notified for these four months. The case-mortality was 2·0 per cent., as against an average of 4·0 for the preceding ten years. The deaths during 1926 were mainly confined to children under five years of age.

### **Whooping Cough.**

The number of cases of whooping cough coming to the knowledge of the Health Department was 362, with 15 deaths, giving a case-mortality of 4·1 per cent. The average annual number of cases during the 1916-1925 decennium was 756, with a case-mortality of 5·6.

### **German Measles.**

Twenty-five cases of this disease were brought to the knowledge of the Health Department, as against 362 in 1925, and an average of 99 during the 1916-1925 decennium. There were no deaths.

### **Influenza.**

Influenza is not a compulsorily notifiable disease, apart from influenzal pneumonia. Influenza (apart from influenzal pneumonia) was registered as the cause of 20 deaths during 1926, as against 12 deaths in 1925.

### **Acute Primary and Influenzal Pneumonia.**

There were 377 cases of primary pneumonia notified in 1926, with 97 deaths. Of influenzal pneumonia, there were 57 cases, with 13 deaths.

### **Meningococcic Meningitis.**

There were 3 cases of this disease during 1926, with 2 deaths. There was no discoverable relationship between any of the cases. During the preceding ten years, the average annual number of cases was 4·4, and the average annual number of deaths, 3·0.

### **Acute Poliomyelitis.**

Five cases of this disease were notified to the Health Department. There was no known association between any of the cases, nor was the source of infection determined in any case.

### **Epidemic Encephalitis.**

No cases during 1926.

### **Tuberculosis.**

As was stated in the 1925 Report, many investigations have shown that only about 1 per cent. of cases of pulmonary and generalised tuberculosis in man are due to the bovine type of the bacillus, whereas in some 66 per cent. of tuberculosis of the glands, in 50 per cent. of abdominal tuberculosis, in 50 per cent. of tuberculosis of the skin, in 25 per cent. of tuberculosis of the bones and joints, in 20 per cent. of tuberculosis of the meninges, and in 18 per cent. of genito-urinary tuberculosis, the infection is of the bovine type. Applying these proportions to the various forms of tuberculosis notified in Aberdeen, it is found that, of the 356 cases notified in 1926, 302, or 85 per cent., were infections with the human type of tubercle bacilli, and that 54, or 15 per cent., were infections with bovine type bacilli. Similarly, of 182 deaths in Aberdeen from all forms of tuberculosis in 1926, it is estimated that 166, or 91 per cent., of these deaths were due to tubercle bacilli of the human type, and that 16, or 9 per cent., were due to bovine type bacilli.

A detailed analysis of the cases and deaths from tuberculosis in Aberdeen is given in the section of this Report relating to the Tuberculosis Services.

### **Chicken-pox.**

This disease was not compulsorily notifiable during 1926, but, during the year, 265 cases were brought to the knowledge of the Health Department. There were no deaths.

## **DISEASES SPREAD BY THE EXCRETA.**

### **Typhoid and Paratyphoid Fevers.**

These diseases have already been referred to under the group of diseases for which there is a specific prevention.

### **Dysentery.**

During 1926, there were 44 cases of dysentery notified, of which 27 proved to be infections with the Sonne bacillus, 12 with the Flexner bacillus, 1 with both Sonne and Flexner bacilli, and 3 with cysts of *Entamoeba histolyca*. In the remaining case, bacteriological examination gave a negative result. A full account of the incidence of dysentery in Aberdeen in recent years was published in Chapter I. of the 1925 Annual Report. Evidence is accumulating which goes to show that summer diarrhoea as occurring in Aberdeen is due to infection with *B. dysenteriae* Sonne.

## **DISEASES SPREAD BY CUTANEOUS INOCULATION.**

### **Erysipelas.**

During 1926, there were 120 cases of this disease reported, with 5 deaths. In the 1916-1925 decennium, the average annual number of cases was 126, and the deaths, 6.

**Scabies.**

A record of the number of cases of other inflammatory affections of the skin, including scabies, receiving treatment at the Skin Department of the City Hospital, is given in the section of this Report dealing with City Hospital Services.

**DISEASES ASSOCIATED WITH CHILD-BIRTH.****Puerperal Fever.**

During 1926, there were 36 cases of puerperal fever, with 8 deaths, the average annual numbers of cases and deaths during the preceding quinquennium being 15 and 9 respectively.

In 1926, maternal deaths were 5.9 per 1,000 births, corrected for transfers, and of these, the deaths from sepsis were 2.3 per 1,000 births. In the 1921-1925 quinquennium, the yearly average of maternal deaths was 6.4 per 1,000 births, the deaths from sepsis averaging 2.2 per 1,000 births.

**Ophthalmia Neonatorum.**

During 1926, there were 48 cases of ophthalmia neonatorum, which is equivalent to 13.5 cases per 1,000 registered births. Additional information regarding ophthalmia neonatorum is given in the section of this Report dealing with Maternity and Child Welfare Services (p. 46).

**INSECT AND VERMIN-BORNE DISEASES.****Typhus Fever, Trench Fever, Infective Jaundice.**

No cases during 1926.

**Malaria.**

Six cases were reported, all of which contracted the infection abroad. There were no deaths.

## CHAPTER II.

---

### ENVIRONMENTAL CONDITIONS.

#### ATMOSPHERIC CONDITIONS.

WEATHER AND DISEASE.—In Table VIII. is summarised the state of the weather in Aberdeen for each month throughout the year under review, along with the average for the twenty-five years 1897-1921.

As regards sunshine, the month which enjoyed the most sunshine was July, with 211 hours for the whole month, or seven hours a day; while the month with the least sunshine was June, with 30 hours for the whole month, or one hour a day. The total amount of sunshine for the year under review was above the average for the years 1897-1921.

January was the coldest month, with a temperature of 39·9° F., the warmest month being July, with a temperature of 58·1° F. The difference in temperature between the coldest and warmest months was 19·9, which was slightly above the average for the years 1897-1921 (17·5°). The mean temperature for the whole year was 47·0°, the average for preceding years being 47·2°. The mean daily range of temperature, or the difference between the highest and lowest for the day, averaged 10·0 in 1926.

During 1926, the driest months were March and December, with 1·0 inches of rainfall, while October was the wettest, with fully five times that amount of rain. The total amount of rainfall during the year is higher than the average for preceding years.

In 1926, the most prevalent winds in Aberdeen were from the south and west, the least prevalent being north-easterly winds.

#### HOUSING CONDITIONS.

A comprehensive review of the housing situation in Aberdeen is submitted by the Sanitary Inspector in his Annual Report for 1926.

NUMBER OF NEW HOUSES.—During the years 1919-1926, 701 houses have been erected under the various Corporation Housing Schemes or by private enterprise with the aid of subsidy, and 157 houses have been erected without subsidy. During the past eight years, therefore, a total of 858 houses have been erected, and of these, 211 contained more than four rooms.

HOUSING REQUIREMENTS.—In the 1925 Annual Report it was estimated that more than 5,000 new houses are required to meet the immediate housing requirements of the City, and, following on a further comprehensive survey of the City's housing requirements as set forth in the Sanitary Inspector's Report for 1926, it is shown that this estimate of 5,000 houses to relieve overcrowding and sub-letting and to replace houses unfit for human habitation is, if anything, an underestimate. This further survey has also revealed the fallacy of the theory that every additional house built sets free a house which was formerly occupied by the

## YEAR 1926.

| MONTH.          | BAROMETRIC PRESSURE (at 32° F. and Sea Level). |                          |                         |         | TEMPERATURE OF ATMOSPHERE. |                          |                        |      | Mean Daily Temp. of Ground (4 feet below surface). |     | RELATIVE HUMIDITY. (at 30°). | RAIN-FALL      |        | SUNSHINE.      |                                        | * WIND. |      |     |      |      |      |      |      |           |     |  | Velocity<br>Average<br>No. miles<br>per day. |
|-----------------|------------------------------------------------|--------------------------|-------------------------|---------|----------------------------|--------------------------|------------------------|------|----------------------------------------------------|-----|------------------------------|----------------|--------|----------------|----------------------------------------|---------|------|-----|------|------|------|------|------|-----------|-----|--|----------------------------------------------|
|                 | Also-<br>lute<br>Highest                       | Also-<br>lute<br>Lowest. | Mean<br>Daily<br>Range. | Inches. | Also-<br>lute<br>Highest   | Also-<br>lute<br>Lowest. | Mean<br>Daily<br>Temp. | °F.  | Mean<br>Daily<br>Range.                            | °F. |                              | Dura-<br>tion. | Amount | Dura-<br>tion. | Percentage<br>of possible<br>Sunshine. | N.      | N.E. | E.  | S.E. | S.   | S.W. | W.   | N.W. | Calm<br>† |     |  |                                              |
|                 |                                                |                          |                         |         |                            |                          |                        |      |                                                    |     |                              |                |        |                |                                        |         |      |     |      |      |      |      |      |           |     |  |                                              |
| January.        | 30.52                                          | 28.84                    | 0.31                    | 0.31    | 49.1                       | 29.8                     | 39.9                   | 6.7  | 39.8                                               | 86  | 86                           | 162            | 3.1    | 30             | 14                                     | 1       | 2    | 61  | 79   | 310  | 162  | 42   | 22   | 65        | 278 |  |                                              |
| February.       | 30.46                                          | 29.15                    | 0.22                    | 0.22    | 52.9                       | 20.1                     | 40.6                   | 7.5  | 40.4                                               | 85  | 85                           | 160            | 3.6    | 53             | 20                                     | 9       | 8    | 52  | 151  | 180  | 105  | 84   | 49   | 34        | 269 |  |                                              |
| March.          | 30.05                                          | 29.09                    | 0.25                    | 0.25    | 59.4                       | 31.6                     | 43.1                   | 10.1 | 42.2                                               | 73  | 73                           | 68             | 1.0    | 104            | 28                                     | 39      | 18   | 54  | 93   | 91   | 127  | 224  | 79   | 19        | 274 |  |                                              |
| April.          | 30.24                                          | 29.23                    | 0.17                    | 0.17    | 64.6                       | 33.1                     | 45.8                   | 10.3 | 44.5                                               | 83  | 83                           | 107            | 2.4    | 114            | 27                                     | 41      | 47   | 111 | 57   | 179  | 64   | 91   | 75   | 55        | 212 |  |                                              |
| May.            | 30.21                                          | 29.24                    | 0.13                    | 0.13    | 62.1                       | 33.1                     | 46.2                   | 10.7 | 46.6                                               | 78  | 78                           | 103            | 1.4    | 173            | 34                                     | 57      | 73   | 52  | 81   | 154  | 36   | 92   | 178  | 21        | 213 |  |                                              |
| June.           | 30.41                                          | 29.20                    | 0.15                    | 0.15    | 73.8                       | 42.4                     | 53.3                   | 10.0 | 51.5                                               | 82  | 82                           | 77             | 1.8    | 178            | 34                                     | 57      | 60   | 114 | 80   | 115  | 54   | 63   | 136  | 41        | 232 |  |                                              |
| July.           | 30.43                                          | 29.31                    | 0.17                    | 0.17    | 79.7                       | 43.7                     | 58.1                   | 12.1 | 55.6                                               | 80  | 80                           | 58             | 2.4    | 211            | 40                                     | 64      | 53   | 52  | 105  | 181  | 39   | 84   | 131  | 35        | 205 |  |                                              |
| August.         | 30.40                                          | 29.20                    | 0.20                    | 0.20    | 70.0                       | 43.5                     | 57.5                   | 12.2 | 56.2                                               | 79  | 79                           | 49             | 1.3    | 160            | 34                                     | 45      | 9    | 10  | 50   | 228  | 113  | 128  | 96   | 65        | 184 |  |                                              |
| September.      | 30.33                                          | 29.28                    | 0.20                    | 0.20    | 70.9                       | 35.8                     | 53.3                   | 12.6 | 54.6                                               | 79  | 79                           | 95             | 4.2    | 138            | 36                                     | 35      | 10   | 29  | 29   | 191  | 130  | 166  | 103  | 27        | 194 |  |                                              |
| October.        | 30.64                                          | 28.55                    | 0.30                    | 0.30    | 67.1                       | 28.6                     | 43.6                   | 10.1 | 50.8                                               | 82  | 82                           | 171            | 5.6    | 126            | 39                                     | 26      | 25   | 37  | 36   | 192  | 64   | 250  | 162  | 42        | 243 |  |                                              |
| November.       | 30.20                                          | 28.50                    | 0.30                    | 0.30    | 52.2                       | 28.8                     | 41.8                   | 8.5  | 44.6                                               | 85  | 85                           | 144            | 4.2    | 80             | 33                                     | 14      | 7    | 43  | 54   | 201  | 168  | 141  | 66   | 26        | 251 |  |                                              |
| December.       | 31.02                                          | 29.32                    | 0.27                    | 0.27    | 55.4                       | 29.5                     | 40.4                   | 8.7  | 42.3                                               | 78  | 78                           | 51             | 1.0    | 44             | 21                                     | 18      | 1    | 0   | 1    | 60   | 154  | 335  | 147  | 28        | 232 |  |                                              |
| Monthly Average | 30.45                                          | 29.08                    | 0.22                    | ...     | 63.1                       | 33.3                     | 47.0                   | 10.0 | 47.4                                               | 81  | ...                          | 104            | 2.7    | 118            | 30                                     | 34      | 26   | 51  | 68   | 166  | 101  | 142  | 104  | 38        | 232 |  |                                              |
| Total for Year. | ...                                            | ...                      | ...                     | ...     | ...                        | ...                      | ...                    | ...  | ...                                                | ... | ...                          | 1245           | 32.0   | 1411           | ...                                    | 406     | 313  | 615 | 816  | 1992 | 1216 | 1700 | 1244 | 458       | ... |  |                                              |

## AVERAGE FOR TWENTY-FIVE YEARS, 1897-1921.

|                 |       |       |      |      |      |      |      |      |     |      |      |      |     |     |     |     |      |      |      |      |      |     |     |
|-----------------|-------|-------|------|------|------|------|------|------|-----|------|------|------|-----|-----|-----|-----|------|------|------|------|------|-----|-----|
| January,        | 30.34 | 23.81 | 0.31 | 52.0 | 26.1 | 38.7 | 7.7  | 40.4 | 80  | 86   | 2.1  | 43   | 19  | 23  | 10  | 21  | 85   | 165  | 202  | 144  | 94   | 0.1 | 242 |
| February,       | 30.49 | 28.35 | 0.28 | 52.0 | 24.8 | 38.9 | 8.3  | 39.6 | 80  | 76   | 1.8  | 73   | 28  | 24  | 17  | 25  | 65   | 171  | 148  | 126  | 101  | ... | 229 |
| March,          | 30.35 | 28.88 | 0.26 | 55.1 | 26.7 | 40.1 | 9.1  | 40.1 | 78  | 103  | 2.3  | 109  | 30  | 47  | 31  | 47  | 95   | 142  | 137  | 120  | 124  | 0.2 | 239 |
| April,          | 30.47 | 29.04 | 0.23 | 60.1 | 30.3 | 43.3 | 10.2 | 42.2 | 78  | 84   | 2.0  | 157  | 38  | 50  | 45  | 51  | 96   | 147  | 96   | 110  | 126  | 0.1 | 217 |
| May,            | 30.44 | 29.24 | 0.19 | 66.7 | 34.7 | 48.0 | 11.1 | 45.8 | 78  | 83   | 2.4  | 183  | 37  | 74  | 57  | 84  | 134  | 149  | 73   | 69   | 104  | 0.9 | 189 |
| June,           | 30.38 | 29.42 | 0.16 | 69.9 | 39.3 | 52.9 | 11.3 | 50.4 | 77  | 64   | 1.7  | 183  | 35  | 73  | 59  | 79  | 111  | 131  | 74   | 67   | 133  | 0.4 | 181 |
| July,           | 30.34 | 29.40 | 0.16 | 72.6 | 43.2 | 56.2 | 10.9 | 53.2 | 78  | 75   | 2.8  | 154  | 29  | 65  | 49  | 82  | 107  | 133  | 80   | 83   | 144  | 1.9 | 163 |
| August,         | 30.29 | 29.31 | 0.17 | 71.6 | 42.4 | 55.6 | 10.7 | 54.3 | 80  | 76   | 2.6  | 141  | 31  | 48  | 47  | 67  | 103  | 151  | 100  | 96   | 133  | 1.3 | 164 |
| September,      | 30.42 | 29.22 | 0.20 | 67.8 | 38.4 | 53.0 | 11.0 | 53.0 | 80  | 72   | 2.1  | 125  | 33  | 36  | 24  | 39  | 87   | 173  | 119  | 114  | 129  | 0.5 | 181 |
| October,        | 30.44 | 29.06 | 0.24 | 61.3 | 32.9 | 47.9 | 9.3  | 50.3 | 82  | 101  | 2.8  | 91   | 29  | 34  | 22  | 38  | 104  | 195  | 128  | 103  | 75   | 0.3 | 211 |
| November,       | 30.46 | 28.84 | 0.26 | 55.5 | 27.1 | 42.5 | 8.2  | 46.3 | 82  | 102  | 2.8  | 55   | 23  | 26  | 9   | 24  | 69   | 164  | 164  | 155  | 107  | 0.1 | 228 |
| December,       | 30.40 | 28.75 | 0.30 | 52.7 | 24.8 | 39.6 | 7.8  | 42.7 | 82  | 115  | 3.3  | 36   | 18  | 20  | 8   | 26  | 76   | 173  | 198  | 155  | 92   | 0.1 | 234 |
| Monthly Average | 30.42 | 29.07 | 0.23 | 61.4 | 32.6 | 47.2 | 9.6  | 46.5 | 80  | 86   | 2.4  | 113  | 29  | 43  | 32  | 49  | 94   | 158  | 127  | 112  | 114  | 0.5 | 207 |
| Total for Year, | ...   | ...   | ...  | ...  | ...  | ...  | ...  | ...  | ... | 1037 | 28.7 | 1350 | ... | 520 | 378 | 583 | 1132 | 1894 | 1519 | 1347 | 1362 | 5.9 | ... |

\* To indicate the dominant direction, every duration of 100 hours and upwards is in thick figures. The wind data are now obtained from a new pressure-tube anemograph erected in a more open exposure than that of the previous instrument. The values obtained under the new conditions exceed the previous values by about 20 per cent.

† "Calms" now include actual calms and occasions of fluctuating light winds. Previously only flat calms were entered as "calms."

occupant of the newly erected house. In point of fact, 43 per cent. of all the new houses in the City are occupied by persons who have not released another house for occupation.

In terms of the Minutes of Council of 5th January, 1927, the Town Council have authorised the building of 1,000 dwellings at Hilton and Cattofield in 250 blocks of four three-room flatted dwelling-houses as the first instalment towards the total of upwards of 5,000 houses estimated by the Health Department as necessary to meet the immediate housing requirements of the City.

### FACTORIES, WORKSHOPS, AND WORKPLACES.

FACTORIES.—Table IX. is submitted, giving details of the administration of the Factory and Workshop Act, 1901. No prosecutions had to be instituted under the Act, but a large number of defects discovered during the routine inspections were remedied.

TABLE IX.—ABERDEEN.—FACTORIES, WORKSHOPS, AND WORKPLACES, 1926.

#### 1.—INSPECTION OF FACTORIES, WORKSHOPS, AND WORKPLACES.

*Including Inspections made by Sanitary Inspectors.*

| Premises.                                              | NUMBER OF    |                  |               |
|--------------------------------------------------------|--------------|------------------|---------------|
|                                                        | Inspections. | Written Notices. | Prosecutions. |
| Factories (including Factory Laundries) . . . . .      | 1,669        | 437              | 0             |
| Workshops (including Workshop Laundries) . . . . .     | 2,107        | 470              | 0             |
| Workplaces (other than Outworkers' premises) . . . . . | 57           | 29               | 0             |
| TOTAL . . . . .                                        | 3,833        | 936              | 0             |

#### 2.—DEFECTS FOUND IN FACTORIES, WORKSHOPS, AND WORKPLACES.

| Particulars.                                                                                                                                                                                 | NUMBER OF DEFECTS                 |           |                             | Number of Prosecutions. |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-----------|-----------------------------|-------------------------|
|                                                                                                                                                                                              | Found.                            | Remedied. | Referred to H.M. Inspector. |                         |
| NUISANCES UNDER THE PUBLIC HEALTH ACTS.*                                                                                                                                                     |                                   |           |                             |                         |
| Want of cleanliness . . . . .                                                                                                                                                                | 695                               | 649       | 0                           | 0                       |
| Want of ventilation . . . . .                                                                                                                                                                | 9                                 | 8         | 0                           | 0                       |
| Overcrowding . . . . .                                                                                                                                                                       | 0                                 | 0         | 0                           | 0                       |
| Want of drainage of floors . . . . .                                                                                                                                                         | 0                                 | 0         | 0                           | 0                       |
| Other nuisances . . . . .                                                                                                                                                                    | 84                                | 80        | 0                           | 0                       |
| Sanitary accommodation {                                                                                                                                                                     | Insufficient . . . . .            | 7         | 5                           | 0                       |
|                                                                                                                                                                                              | Unsuitable or defective . . . . . | 42        | 36                          | 0                       |
|                                                                                                                                                                                              | Not separate for sexes . . . . .  | 1         | 1                           | 0                       |
| OFFENCES UNDER THE FACTORY AND WORKSHOP ACTS.                                                                                                                                                |                                   |           |                             |                         |
| Illegal occupation of underground bakehouse (s. 101)                                                                                                                                         | 0                                 | 0         | 0                           | 0                       |
| Other offences . . . . .                                                                                                                                                                     | 0                                 | 0         | 0                           | 0                       |
| (Excluding offences relating to outwork and offences under the Sections mentioned in the Schedule to the Scottish Board of Health (Factories and Workshops Transfer of Powers) Order, 1921.) |                                   |           |                             |                         |
| TOTAL . . . . .                                                                                                                                                                              | 838                               | 779       | 0                           | 0                       |

\* Including those specified in Sections 2, 3, 7, and 8 of the Factory and Workshop Act, 1901, as remediable under the Public Health Acts.

**WORKSHOPS.**—The number of workshops, exclusive of bakehouses, registered at the end of 1926 was 731, as compared with 744 in 1925.

Excellent work continues to be done by the Sanitary Inspector and his staff in the sanitary control of the workshops of the City. Every workshop is inspected at least once a year, and an effort is made to keep it in accordance with the requirements of the Public Health Act and the Factory and Workshop Acts. Fish-curing and provision-curing works are inspected very frequently, some of them almost daily, the primary object of the visit being the inspection of the food. The bulk of the defects found during 1926 had reference to want of cleanliness.

In regard to Section 61 of the Factory and Workshop Act, 1901, whereby it is enacted that no woman or girl shall be employed within a factory or workshop within four weeks after she has given birth to a child, it has been ascertained through the Health Visitors that there is no evidence that women are so employed in Aberdeen.

**BAKEHOUSES.**—The bakehouses, of which there were 77 in the City in 1926, as compared with 82 in 1925, were, as usual, inspected every quarter or oftener, and were found, on the whole, to be in a satisfactory condition. Certain sanitary defects in connection with bakehouses were remedied at the suggestion of the Health Department.

**HOME WORKERS.**—With regard to home workers, the usual routine inspections were made in connection with the sanitary condition of the premises and the prevention of infectious diseases.

**INSPECTION OF PLANS.**—During the year under review, plans of 19 premises, chiefly alterations and additions to existing buildings, were examined and reported on. Certain recommendations in regard to the ventilation of the premises, the situation of the water-closet apartments, and the provision of wash-hand basins were given effect to prior to the approval of the plans by the Town Council.

### OFFENSIVE TRADES.

The offensive trades in Aberdeen, within the meaning of the Public Health Act, are concerned chiefly with tallow-melting or oil extracting from ox bones or fish livers, soap boiling, slaughtering, knackerling, hide factoring, and the manufacture of manures and fish meal.

No new applications for the establishment of offensive trades were sanctioned during the year. One application for sanction to extend existing premises was received and has not yet been disposed of.

All the premises in which offensive trades are carried on are kept under regular supervision by the Sanitary Inspector and his staff.

### DRAINAGE.

The survey of all tenemented properties in the City with reference to the number of dwelling-houses in each property, the number of adults and children living therein, and the number and situation of water-closets and sinks which was undertaken in 1925, was completed during 1926. This will enable the Department, so soon as circumstances permit, to deal with all properties in which the sanitary conveniences are inadequate.

## WATER SUPPLY.

The progress made during 1926 with the construction of the new works under the 1916 Corporation Water Act is recorded in the reports of the Water Engineer.

The instructive table on page 23, measuring in percentages the degree of purity of the water in terms of bacillus coli, provides evidence of the present state of the water as compared with the two previous years. The table shows that, during 1926, Aberdeen tap water continued to be inferior in bacteriological quality. This is attributed to the continued interference with the water supply, which progress in the construction of the new works has necessitated.

---

TABLE X.—ABERDEEN.—QUALITY OF WATER.—TYPICAL BACILLUS COLI.

| Year.                                                               | Samples from.             | Absent in<br>100 c.c.<br>per cent. | Present in<br>100 c.c.<br>per cent. | Present in<br>50 c.c.<br>per cent. | Present in<br>20 c.c.<br>per cent. | Present in<br>10 c.c.<br>per cent. | Present in<br>5 c.c.<br>per cent. | Present in<br>1 c.c. & less<br>per cent. | Remarks.                                                                                                                                                                                                                                                                          |
|---------------------------------------------------------------------|---------------------------|------------------------------------|-------------------------------------|------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1926                                                                | River Water . . .         | ...                                | ...                                 | ...                                | ...                                | 4                                  | 43                                | 53                                       | The water was limed for a total period of 17 days when the river was in a disturbed state after floods, during times of high consumpt of water when the filters were inadequate to deal with the quantity of water required, and when resanding of filters was being carried out. |
|                                                                     | Invercarnie Filter Outlet | 69                                 | 10                                  | 11                                 | 4                                  | 2                                  | 4                                 | ...                                      |                                                                                                                                                                                                                                                                                   |
|                                                                     | Aberdeen Tap Water .      | 30                                 | 17                                  | 15                                 | 8                                  | 13                                 | 15                                | 2                                        |                                                                                                                                                                                                                                                                                   |
| 1925                                                                | River Water . . .         | ...                                | ...                                 | ...                                | 2                                  | 6                                  | 36                                | 56                                       | The water was limed for a total period of 5 days.                                                                                                                                                                                                                                 |
|                                                                     | Invercarnie Filter Outlet | 45                                 | 22                                  | 31                                 | 2                                  | ...                                | ...                               | ...                                      |                                                                                                                                                                                                                                                                                   |
|                                                                     | Aberdeen Tap Water .      | 13                                 | 17                                  | 33                                 | 12                                 | 12                                 | 9                                 | 4                                        |                                                                                                                                                                                                                                                                                   |
| 1924                                                                | River Water . . .         | ...                                | ...                                 | ...                                | ...                                | ...                                | 55                                | 45                                       | The water was limed for a total period of 74 days.                                                                                                                                                                                                                                |
|                                                                     | Invercarnie Filter Outlet | 32                                 | 18                                  | 30                                 | 20                                 | ..                                 | ...                               | ...                                      |                                                                                                                                                                                                                                                                                   |
|                                                                     | Aberdeen Tap Water .      | 18                                 | 12                                  | 35                                 | 35                                 | ...                                | ...                               | ...                                      |                                                                                                                                                                                                                                                                                   |
| Aberdeen Tap Water, 1907,<br>(i.e., before the Water was filtered.) |                           | ...                                | ...                                 | 13                                 | ...                                | 29                                 | 33                                | 25                                       |                                                                                                                                                                                                                                                                                   |

## CHAPTER III.

### SPECIAL HEALTH SERVICES.

#### CITY HOSPITAL SERVICES.

The admissions to the City Hospital during 1926 are shown in Table XI. The total admissions amounted to 1,939, including 81 cases admitted from outside the City, as compared with an average of 1,550 during the 1916-1925 decennium. The admissions from outside the City included 7 cases of scarlet fever; 15 cases of diphtheria with 2 deaths; 6 cases of measles with 1 death; 13 cases of pneumonia with 1 death; 13 cases of tuberculosis with 5 deaths; 1 case of meningococcic meningitis with 1 death; 1 case of dysentery; 2 of erysipelas with 1 death; 11 of puerperal fever with 4 deaths; and 5 cases of ophthalmia neonatorum.

The daily number of patients under treatment varied from 203 to 296, the average daily number being 260.

**CHICKEN-POX.**—Five cases were admitted to hospital. As was to be expected, no deaths from this disease occurred.

**SCARLET FEVER.**—The number of cases of scarlet fever admitted was 789, as compared with an annual average of 374 during the preceding decennium. There were 8 deaths, giving a case-mortality of 2.1 per cent., as against an average of 2.0 per cent. during the 1916-1925 decennium. An account of the work done in connection with Dick-testing and streptococcus toxin immunisation against scarlet fever is given in the section of this Report dealing with infectious diseases.

**DIPHTHERIA.**—Of this disease, 326 cases were admitted during the year, as compared with an annual average of 416 during the preceding decennium. The deaths numbered 21, the case-mortality being 6.4 per cent., as compared with an average of 5.2 for the 1916-1925 decennium. An account of the work done in connection with Schick-testing and toxin-antitoxin immunisation against diphtheria is given in the section of this Report dealing with infectious diseases.

**MEASLES.**—Of this disease, 74 cases were admitted to hospital, with 8 deaths, the case-mortality being 10.8 per cent. During the 1916-1925 decennium, the average annual number of cases admitted was 80, with 9 deaths, and a case-mortality of 11.3 per cent.

**GERMAN MEASLES.**—Two cases were admitted during the year. As would be expected, there were no deaths.

**WHOOPING COUGH.**—The admissions during the year numbered 20, with 5 deaths, giving a case-mortality of 25.0 per cent. During the 1916-1925 decennium, the average annual number of cases admitted was 24, with 6 deaths, and a case-mortality of 23.8 per cent.

TABLE XI.—ABERDEEN.—CITY HOSPITAL.—ANNUAL SUMMARY.

† ADMISSIONS AND DEATHS DURING EACH YEAR FROM 1916 TO 1926 INCLUSIVE.

| DISEASE.                                            |               | 1926 | 1925 | 1924 | 1923 | 1922 | 1921 | 1920 | 1919 | 1918 | 1917 | 1916 | 1916-1925<br>Annual Average |
|-----------------------------------------------------|---------------|------|------|------|------|------|------|------|------|------|------|------|-----------------------------|
| Small Pox, {                                        | Admitted, ... | 0    | 1    | 1    | 1    | 0    | 0    | 0    | 0    | 8    | 0    | 0    | 1.1                         |
|                                                     | Died, ...     | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0                           |
| Scarlet Fever, ... {                                | Admitted, ... | 789  | 625  | 186  | 238  | 272  | 538  | 375  | 247  | 204  | 245  | 812  | 374.2                       |
|                                                     | Died, ...     | 8    | 12   | 4    | 4    | 6    | 6    | 7    | 4    | 2    | 8    | 22   | 7.5                         |
| Diphtheria, {                                       | Admitted, ... | 326  | 427  | 282  | 185  | 287  | 684  | 536  | 533  | 348  | 327  | 553  | 416.2                       |
|                                                     | Died, ...     | 21   | 21   | 11   | 8    | 14   | 35   | 28   | 29   | 19   | 18   | 32   | 21.5                        |
| Typhus Fever, ... {                                 | Admitted, ... | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0                           |
|                                                     | Died, ...     | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0                           |
| Typhoid and Paratyphoid Fever, {                    | Admitted, ... | 2    | 42   | 10   | 23   | 9    | 6    | 7    | 22   | 104  | 1    | 10   | 23.4                        |
|                                                     | Died, ...     | 0    | 0    | 1    | 3    | 0    | 0    | 2    | 5    | 14   | 1    | 2    | 2.8                         |
| Acute Poliomyelitis, {                              | Admitted, ... | 2    | 5    | 3    | 0    | 7    | 4    | 3    | 1    | 1    | 9    | 69   | 10.2                        |
|                                                     | Died, ...     | 0    | 0    | 0    | 0    | 0    | 2    | 0    | 1    | 1    | 0    | 2    | 0.6                         |
| Cerebro-Spinal Meningitis {                         | Admitted, ... | 2    | 1    | 4    | 6    | 3    | 5    | 5    | 15   | 7    | 1    | 5    | 5.2                         |
|                                                     | Died, ...     | 2    | 0    | 3    | 3    | 2    | 3    | 1    | 11   | 7    | 1    | 2    | 3.3                         |
| Acute Pneumonias {                                  | Admitted, ... | 144  | 118  | 69   | 24   | 52   | 24   | 44   | 2    | ...  | ...  | ...  | ...                         |
|                                                     | Died, ...     | 16   | 11   | 9    | 3    | 14   | 10   | 9    | 1    | ...  | ...  | ...  | ...                         |
| Erysipelas, {                                       | Admitted, ... | 37   | 27   | 15   | 22   | 32   | 37   | 40   | 16   | 17   | 13   | 9    | 22.8                        |
|                                                     | Died, ...     | 4    | 2    | 3    | 0    | 4    | 3    | 4    | 1    | 2    | 1    | 1    | 2.1                         |
| Puerperal Fever, ... {                              | Admitted, ... | 38   | 20   | 11   | 8    | 4    | 7    | 9    | 4    | 4    | 2    | 3    | 7.2                         |
|                                                     | Died, ...     | 8    | 7    | 3    | 3    | 1    | 2    | 3    | 1    | 2    | 1    | 0    | 2.3                         |
| Measles, ... {                                      | Admitted, ... | 74   | 86   | 96   | 49   | 209  | 1    | 52   | 24   | 112  | 166  | 7    | 80.2                        |
|                                                     | Died, ...     | 8    | 9    | 11   | 11   | 39   | 0    | 6    | 0    | 4    | 11   | 0    | 9.1                         |
| Whooping Cough {                                    | Admitted, ... | 20   | 48   | 91   | 0    | 32   | 5    | 6    | 21   | 18   | 17   | 2    | 24.0                        |
|                                                     | Died, ...     | 5    | 18   | 18   | 0    | 10   | 0    | 2    | 2    | 4    | 3    | 0    | 5.7                         |
| Tuberculosis {                                      | Admitted, ... | 204  | 220  | 260  | 275  | 313  | 320  | 287  | 353  | 375  | 391  | 317  | 311.1                       |
|                                                     | Died, ...     | 36   | 52   | 47   | 47   | 50   | 42   | 47   | 76   | 78   | 69   | 56   | 56.4                        |
| † Ailing Infant Wards {                             | Admitted, ... | 170  | 160  | 161  | 167  | 192  | 178  | 143  | 96   | ...  | ...  | ...  | ...                         |
|                                                     | Died, ...     | 24   | 51   | 44   | 50   | 70   | 75   | 76   | 61   | ...  | ...  | ...  | ...                         |
| Other Cases, {                                      | Admitted, ... | 131  | 102  | 104  | 130  | 140  | 118  | 135  | 209  | 243  | 116  | 40   | 133.7                       |
|                                                     | Died, ...     | 13   | 11   | 17   | 12   | 13   | 13   | 12   | 30   | 71   | 32   | 12   | 22.3                        |
| Total Cases, {                                      | Admitted, ... | 1939 | 1882 | 1293 | 1128 | 1552 | 1927 | 1642 | 1520 | 1441 | 1288 | 1827 | 150.0                       |
|                                                     | Died, ...     | 145  | 194  | 171  | 144  | 223  | 191  | 197  | 219  | 204  | 145  | 129  | 181.7                       |
| Average Daily Number of Patients in Hospital, ... } |               | 260  | 255  | 189  | 180  | 198  | 264  | 255  | 231  | 222  | 201  | 276  | 227                         |

† Including cases admitted from outside City. ‡ From 1917 to 1919, admissions to Ailing Infant Wards included in "Other Cases."

**ACUTE PNEUMONIAS.**—During the year, 144 cases of acute primary and acute influenzal pneumonia were admitted for treatment, as compared with an annual average of 57 during the preceding quinquennium. A total of 14 cases proved suitable for serum therapy, being infections with Type I. pneumococcus. During 1926, 16 deaths occurred, as against an annual average of 9 during the preceding five years.

**TUBERCULOSIS.**—During the year, 204 cases were admitted to hospital, as against an average of 311 during the 1916-1925 decennium. There were 36 deaths in 1926, as compared with an average of 56 during the preceding decennium.

Of the 204 cases admitted, all were cases of respiratory tuberculosis except 54. These cases of extrapulmonary tuberculosis consisted of 21 cases of tuberculosis of bones and joints, 10 cases of tuberculous meningitis, 8 cases of abdominal tuberculosis, 14 cases of tuberculous glands, and 1 case of generalised tuberculosis. Of the 150 respiratory cases, 83 were males and 67 females, and of the other cases, 28 were males and 26 females.

The cases of respiratory tuberculosis discharged from the City Hospital during the year numbered 129. As to the condition on discharge, 70 per cent. had improved in general health, 77 per cent. showed an increase in weight, 16 per cent. showed an improvement in the lung condition, some 46 per cent. were considered by the Tuberculosis Officer as fit for work or school, and in 74 per cent. of the cases the pulmonary condition was stationary.

As to the presence of tubercle bacilli in the sputum of cases admitted, 40 per cent. were positive; and 31 per cent. had bacilli in the sputum on discharge.

**MENINGOCOCCIC MENINGITIS.**—There were 2 admissions, both cases proving fatal, as compared with an annual average of 5 admissions and 3 deaths during the preceding ten years.

**ACUTE POLIOMYELITIS.**—Two cases were admitted during the year. There were no deaths.

**DYSENTERY.**—Thirty cases were treated in hospital during the year, including 6 in marasmus ward. There was 1 death.

**TYPHOID AND PARATYPHOID FEVER.**—In 1926, 2 cases were admitted. There were no deaths. In the preceding decennium, the average annual number of cases admitted was 23, and the deaths, 3.

**ERYSIPELAS.**—Of this disease, 37 cases were admitted to hospital with 4 deaths; the average annual number of cases admitted during the 1916-1925 decennium being 23 with 2 deaths.

**PUERPERAL FEVER.**—In 1926, 38 cases were admitted, with 8 deaths; the average for the preceding decennium being 7 cases and 2 deaths.

**VENEREAL DISEASES.**—During the year 10 cases of syphilis, 7 cases of gonorrhœa, and 4 cases of mixed infection were admitted for treatment.

**MARASMUS WARDS.**—There were 170 admissions, with 24 deaths.

CLEANSING BLOCK AND SKIN DEPARTMENT.—Full details of the verminous conditions among school children are to be found in the Annual Reports of the Chief Medical Officer of the Education Authority.

Table XII. shows that during the year the number of verminous persons, whether members of families with children of school age or not, disinfested at the City Hospital Cleansing Department was 405. This table also shows that a total of 200 persons was treated for scabies in the skin wards of the Cleansing Department.

TABLE XII.—ABERDEEN.—CLEANSING STATION.—YEAR 1926.

|                                     | AGE GROUPS (years). |      |       |      | ALL AGES. |
|-------------------------------------|---------------------|------|-------|------|-----------|
|                                     | 0-5                 | 5-15 | 15-25 | 25 + |           |
| Verminous Persons Cleansed, . . . . | 61                  | 156  | 65    | 123  | 405       |
| Scabies Cases Treated, . . . .      | 31                  | 77   | 36    | 56   | 200       |
| TOTALS, . . . .                     | 92                  | 233  | 101   | 179  | 605       |

### TUBERCULOSIS SERVICES.

*Mortality.*—As compared with 1925, the deaths from respiratory tuberculosis during 1926 showed a decrease, there being 119 deaths against 154; while, on the other hand, the deaths from other forms of tuberculosis showed an increase, there being 63 deaths, as against 43 in 1925. The increase was mainly due to a larger number of deaths from tuberculous meningitis, there being 34 deaths in 1926, as compared with 19 in 1925.

Table XIII., as also the accompanying chart, shows the great fall in the tuberculosis death-rate during the past seventy years.

*Notifications.*—Table XIV. (A) gives the number of tuberculosis cases notified during the year, divided into respiratory and non-respiratory cases, and arranged according to sex and age-period. During 1926, 219 cases of respiratory tuberculosis and 137 cases of non-respiratory tuberculosis were notified.

As regards the *Site of the Disease* in the 137 cases notified as suffering from tuberculosis other than respiratory, 29 were suffering from abdominal tuberculosis, 33 from tuberculous meningitis, 20 from tubercle of bones and joints (including the spine), 28 from tuberculous glands (mainly cervical), and 27 from generalised and other tuberculosis (including 19 of lupus).

There were 15 deaths of abdominal cases, 34 of meningitic cases, 7 of cases of bones and joints, and 7 of other cases.

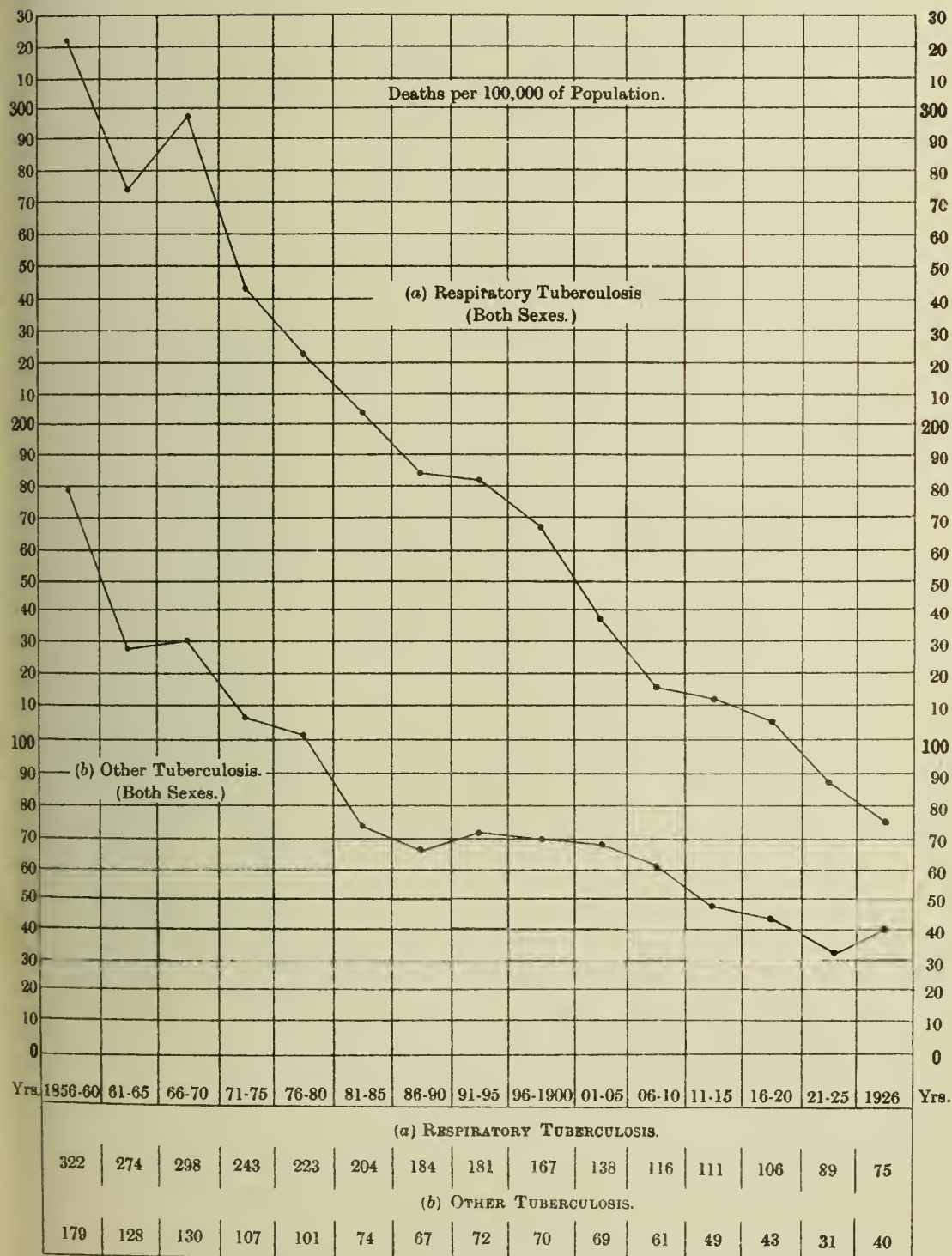
TABLE XIII.—ABERDEEN.—MORTALITY FROM TUBERCULOSIS IN YEARS 1856-1926,\*  
Per 100,000 of Population.

| PERIOD.     | RESPIRATORY TUBERCULOSIS. |          |                | OTHER TUBERCULOUS DISEASES. |          |                | ALL TUBERCULOUS DISEASES. |          |                |
|-------------|---------------------------|----------|----------------|-----------------------------|----------|----------------|---------------------------|----------|----------------|
|             | Males.                    | Females. | Both<br>Sexes. | Males.                      | Females. | Both<br>Sexes. | Males.                    | Females. | Both<br>Sexes. |
| 1856-60 .   | 333                       | 312      | 322            | 235                         | 135      | 179            | 568                       | 447      | 501            |
| 1861-65 .   | 267                       | 279      | 274            | 158                         | 103      | 128            | 425                       | 382      | 402            |
| 1866-70 .   | 295                       | 300      | 298            | 170                         | 98       | 130            | 465                       | 398      | 428            |
| 1871-75 .   | 234                       | 250      | 243            | 129                         | 89       | 107            | 363                       | 339      | 350            |
| 1876-80 .   | 217                       | 228      | 223            | 112                         | 92       | 101            | 329                       | 320      | 324            |
| 1881-85 .   | 189                       | 216      | 204            | 90                          | 62       | 74             | 279                       | 278      | 278            |
| 1886-90 .   | 179                       | 188      | 184            | 76                          | 60       | 67             | 255                       | 248      | 251            |
| 1891-95 .   | 179                       | 183      | 181            | 83                          | 62       | 72             | 262                       | 245      | 253            |
| 1896-1900 . | 166                       | 168      | 167            | 77                          | 64       | 70             | 243                       | 232      | 237            |
| 1901-05 .   | 143                       | 134      | 138            | 79                          | 62       | 69             | 222                       | 196      | 207            |
| 1906-10 .   | 119                       | 113      | 116            | 74                          | 51       | 61             | 193                       | 164      | 178            |
| 1911-15 .   | 125                       | 99       | 111            | 53                          | 47       | 49             | 177                       | 146      | 160            |
| 1916-20 .   | 104                       | 107      | 106            | 49                          | 39       | 43             | 153                       | 146      | 149            |
| 1921-25 .   | 99                        | 81       | 89             | 37                          | 27       | 31             | 136                       | 108      | 120            |
| 1921 . .    | 81                        | 95       | 88             | 18                          | 16       | 17             | 98                        | 111      | 105            |
| 1922 . .    | 103                       | 77       | 89             | 31                          | 21       | 26             | 135                       | 98       | 115            |
| 1923 . .    | 107                       | 58       | 80             | 53                          | 33       | 43             | 160                       | 91       | 123            |
| 1924 . .    | 100                       | 83       | 91             | 55                          | 35       | 44             | 155                       | 118      | 135            |
| 1925 . .    | 104                       | 92       | 97             | 26                          | 28       | 27             | 130                       | 120      | 124            |
| 1926 . .    | 84                        | 67       | 75             | 39                          | 41       | 40             | 123                       | 108      | 115            |

\* Corrected for transferred deaths in 1904 and subsequent years.

# ABERDEEN—TUBERCULOSIS, 1856-1926.—QUINQUENNIAL PERIODS.

ALL AGES. BOTH SEXES.



(Corrected for transferred deaths in 1904 and subsequent years.)

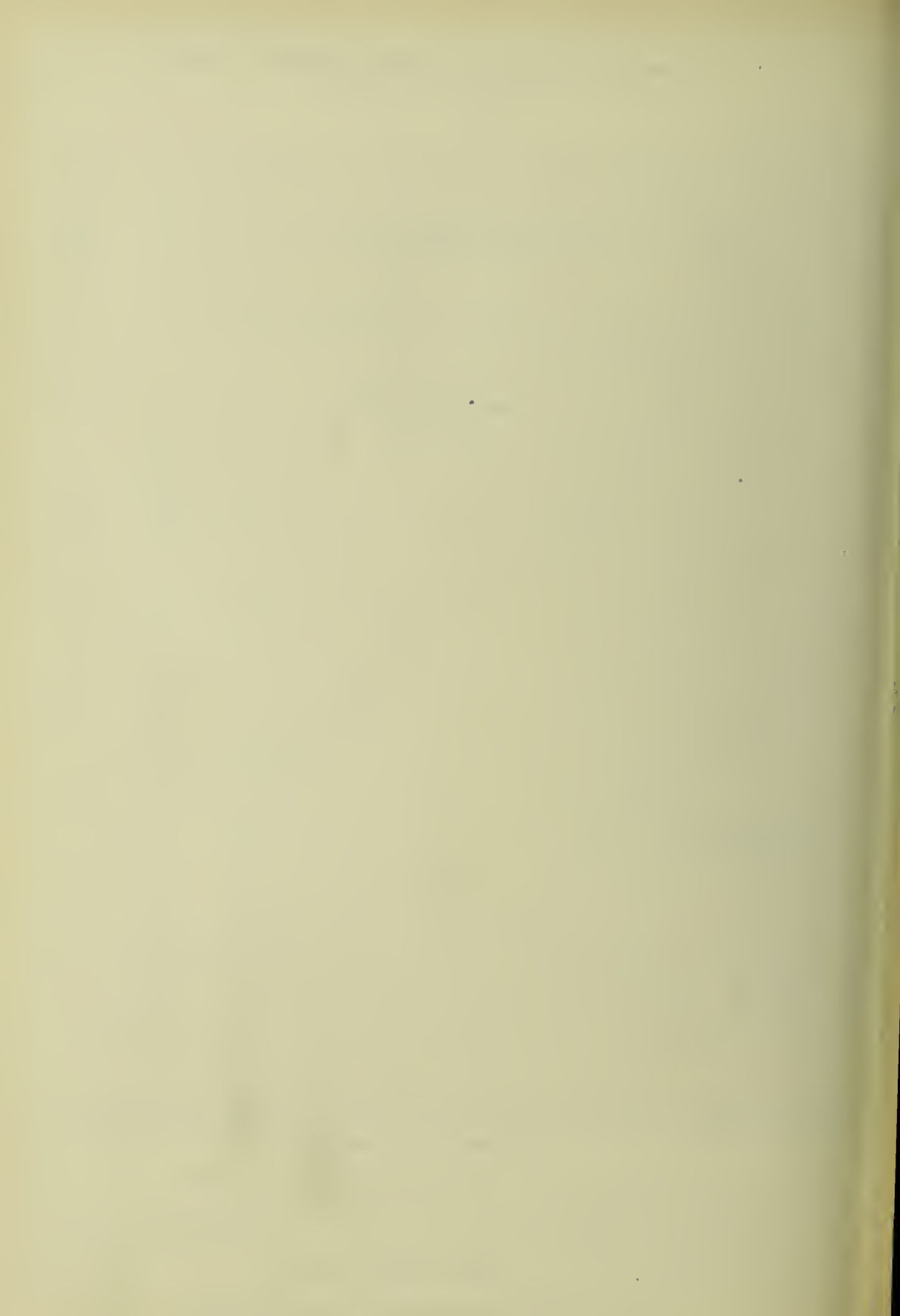


TABLE XIV.—ABERDEEN.—(A.) TUBERCULOSIS CASES NOTIFIED IN 1926.

|                 |           | NUMBER OF CASES NOTIFIED AS SUFFERING FROM TUBERCULOSIS. |                 |                  |                  |                  |                  |                  |                 |        | Number of cases notified during year in which diagnosis of Tuberculosis has been confirmed by M.O.H. (or T.O.) |
|-----------------|-----------|----------------------------------------------------------|-----------------|------------------|------------------|------------------|------------------|------------------|-----------------|--------|----------------------------------------------------------------------------------------------------------------|
|                 |           | Under 5.                                                 | 5 and under 10. | 10 and under 15. | 15 and under 25. | 25 and under 35. | 35 and under 45. | 45 and under 65. | 65 and upwards. | TOTAL. |                                                                                                                |
| Respiratory     | { Males   | 6                                                        | 16              | 6                | 21               | 19               | 23               | 17               | 3               | 111    | 78                                                                                                             |
|                 | { Females | 8                                                        | 12              | 11               | 22               | 19               | 16               | 15               | 5               | 108    | 70                                                                                                             |
| Non-Respiratory | { Males   | 34                                                       | 7               | 9                | 11               | 2                | 2                | ...              | ...             | 65     | 26                                                                                                             |
|                 | { Females | 27                                                       | 9               | 9                | 11               | 3                | 5                | 5                | 3               | 72     | 19                                                                                                             |

(B.) NUMBER OF PERSONS BELONGING TO ABERDEEN AT 31ST DECEMBER, 1926,  
WHO WERE KNOWN TO BE SUFFERING FROM TUBERCULOSIS.

|                                          |         | NUMBER OF KNOWN CASES. |                 |                  |                  |                  |                  |                  |                 | Total. |
|------------------------------------------|---------|------------------------|-----------------|------------------|------------------|------------------|------------------|------------------|-----------------|--------|
|                                          |         | Under 5.               | 5 and under 10. | 10 and under 15. | 15 and under 25. | 25 and under 35. | 35 and under 45. | 45 and under 65. | 65 and upwards. |        |
| RESPIRATORY.                             |         |                        |                 |                  |                  |                  |                  |                  |                 |        |
| 1. Tubercle Bacilli found                | Males   | ...                    | 4               | ...              | 18               | 45               | 48               | 27               | ...             | 142    |
|                                          | Females | ...                    | ...             | 2                | 26               | 25               | 14               | 12               | 1               | 80     |
| 2. Tubercle Bacilli not found            | Males   | 12                     | 38              | 73               | 127              | 86               | 77               | 70               | 11              | 494    |
|                                          | Females | 12                     | 48              | 68               | 135              | 110              | 90               | 92               | 15              | 570    |
| NON-RESPIRATORY.                         |         |                        |                 |                  |                  |                  |                  |                  |                 |        |
| 1. Abdominal . . .                       | Males   | 9                      | 9               | 4                | 8                | 1                | 2                | ...              | ...             | 33     |
|                                          | Females | 6                      | 8               | 10               | 10               | 5                | 4                | ...              | ...             | 43     |
| 2. Spine . . . .                         | Males   | 2                      | 4               | 3                | 5                | 2                | ...              | 2                | 1               | 19     |
|                                          | Females | ...                    | 1               | 3                | 4                | 4                | ...              | 2                | ...             | 14     |
| 3. Bones and Joints (exclusive of Spine) | Males   | 5                      | 9               | 7                | 12               | 4                | 5                | 1                | ...             | 43     |
|                                          | Females | 3                      | 4               | 4                | 13               | 6                | 1                | ...              | ...             | 31     |
| 4. Superficial Glands                    | Males   | 10                     | 25              | 22               | 39               | 7                | 1                | 2                | 1               | 107    |
|                                          | Females | 13                     | 6               | 25               | 47               | 15               | 5                | 6                | 1               | 118    |
| 5. Lupus . . . .                         | Males   | ...                    | 1               | 3                | 6                | 2                | 1                | 2                | 1               | 16     |
|                                          | Females | 1                      | ...             | ...              | 8                | 1                | 6                | 4                | 3               | 23     |
| 6. Other Parts or Organs                 | Males   | 2                      | ...             | ...              | 1                | 5                | 1                | ...              | ...             | 9      |
|                                          | Females | 1                      | ...             | 1                | ...              | 1                | ...              | ...              | ...             | 3      |
| Total . . . .                            |         | 76                     | 157             | 225              | 459              | 319              | 255              | 220              | 34              | 1,745  |

(C.) NUMBER OF CASES WHICH RECEIVED TREATMENT UNDER THE TUBERCULOSIS SCHEME IN SANATORIA OR OTHER INSTITUTIONS DURING THE YEAR ENDED 31ST DECEMBER, 1926.

|                  |           | NUMBER OF PATIENTS.           |                           |                             |                           |                                 |
|------------------|-----------|-------------------------------|---------------------------|-----------------------------|---------------------------|---------------------------------|
|                  |           | In Institutions on January 1. | Admitted during the year. | Discharged during the year. | Died in the Institutions. | In Institutions on December 31. |
| RESPIRATORY.     |           |                               |                           |                             |                           |                                 |
| *Adults . . .    | { Males   | 36                            | 99                        | 56                          | 21                        | 58                              |
|                  | { Females | 39                            | 72                        | 43                          | 19                        | 49                              |
| Children . . .   | { Males   | 13                            | 49                        | 48                          | 2                         | 12                              |
|                  | { Females | 23                            | 48                        | 47                          | 2                         | 22                              |
| NON-RESPIRATORY. |           |                               |                           |                             |                           |                                 |
| *Adults . . .    | { Males   | 5                             | 11                        | 4                           | 4                         | 8                               |
|                  | { Females | 6                             | 13                        | 9                           | 3                         | 7                               |
| Children . . .   | { Males   | 10                            | 35                        | 29                          | 9                         | 7                               |
|                  | { Females | 18                            | 30                        | 25                          | 7                         | 16                              |
| Total . . .      |           | 150                           | 357                       | 261                         | 67                        | 179                             |

\* All patients of 15 years and upwards classed as Adults.

As regards the number of cases notified during the year in which diagnosis of tuberculosis was confirmed by the Tuberculosis Medical Officer, Table XIV. (A) shows that the diagnosis was confirmed in 148 respiratory cases and 45 non-respiratory cases, or a total of 193 cases.

Table XIV. (B) shows the number of persons belonging to Aberdeen at 31st December, 1926, who were known to be suffering from tuberculosis. The numbers are—1,286 respiratory cases and 459 non-respiratory cases, or a total of 1,745 persons.

*Institutional Treatment.*—Table XIV. (C) gives the number of notified and un-notified cases which received treatment under the Tuberculosis Scheme in sanatoria or other institutions during 1926. Of the 357 cases admitted, 268 were cases of respiratory tuberculosis and 89 were cases of non-respiratory tuberculosis. The number of notified cases admitted to each institution is given below.

TUBERCULOSIS CASES NOTIFIED AND RECEIVING INDOOR INSTITUTIONAL TREATMENT.

|                                                     | 1926.         |               |        |
|-----------------------------------------------------|---------------|---------------|--------|
|                                                     | Resp. Tuberc. | Other Tuberc. | Total. |
| City Hospital (Sanator. Wards and Shelters), . . .  | 131           | 43            | 174    |
| Newhills Sanatorium, . . . . .                      | 22            | 0             | 22     |
| Parish Council Hospital, . . . . .                  | 6             | 3             | 9      |
| Royal Infirmary, . . . . .                          | 13            | 9             | 22     |
| Cults Convalescent Home, . . . . .                  | 1             | 1             | 2      |
| Royal Hospital for Sick Children, . . . . .         | 2             | 16            | 18     |
| Linnmoor Home (for Children), . . . . .             | 51            | 8             | 59     |
| Scotston Moor Camp do. . . . .                      | 0             | 1             | 1      |
| Kingseat Mental Hospital, . . . . .                 | 9             | 0             | 9      |
| Institutions not connected with City:—              |               |               |        |
| A. In Scotland, . . . . .                           | 12            | 2             | 14     |
| B. In England, . . . . .                            | 0             | 1             | 1      |
| Total admissions, . . . . .                         | 247           | 84            | 331    |
| Deduct cases treated in two institutions, . . . . . | 18            | 6             | 24     |
|                                                     | 229           | 78            | 307    |

The average stay of the tuberculosis cases discharged during the year from the hospitals and sanatoria giving indoor institutional treatment was, in respect of respiratory cases, 190 days for the City Hospital, 61 days for the Royal Infirmary, 45 days for the Sick Children's Hospital, and 192 days for Newhills Sanatorium. As regards the cases of other forms of tuberculosis, the average stay was 317 days for the City Hospital, 23 for the Royal Infirmary, and 44 for the Sick Children's Hospital.

As to outdoor institutional treatment, 544 cases, all of which were of respiratory tuberculosis except 49, received treatment at the Tuberculosis Institute at the City Hospital.

*Insured Persons (National Insurance Act).*—Of the 219 cases of respiratory tuberculosis notified, 94 were insured persons, 64 being male and 30 being female. The notified cases of other forms of tuberculosis included 22 insured persons, 12 of whom were males and 10 females.

As stated in previous Reports, the Town Council have now assumed full financial responsibility for the treatment of insured tuberculous patients. During the year, the number of prescriptions passed for payment amounted to 1,948.

*Food Supply.*—During 1926, food, chiefly milk, was supplied to an average daily total of 56 patients receiving dispensary or domiciliary treatment.

*Supervision of Cases.*—The Tuberculosis Medical Officer had the assistance of three Tuberculosis Health Visitors or Nurses in the visitation and supervision of tuberculosis cases throughout the year.

*Size of House and Density of Occupancy.*—Table XV., on page 32, gives the number of cases occurring in houses of different sizes, along with the average number of inmates. In the case of respiratory tuberculosis, the average number of inmates, including the patient, varied from 3·4 in two-roomed houses to 6·1 in three-roomed houses. The average for houses of all sizes taken together was 5·3.

In the cases of other forms of tuberculosis, the average ran from 3·6 for one-roomed houses to 6·9 for houses of five rooms and upwards. The average for all houses was 5·2.

As regards the position of tuberculous cases in relation to room and bed accommodation at the time of notification, it was found that of the 219 cases of respiratory tuberculosis, only 55, or 25 per cent., were occupying a separate bed in a separate room, and 30, or 14 per cent., had a separate bed but not a separate room. More than one-half had neither a separate bed nor a separate room.

*Assistance in Payment of Rent.*—In December, 1916, the Town Council voted £100 out of the Common Good for the purpose of assisting necessitous tuberculous patients to secure improved housing accommodation while suffering from tuberculosis. During 1926, one tuberculous patient received such assistance.

*Loan of Beds.*—In order to facilitate the separation of the patient from the other members of the household, 31 beds or cots, with the necessary bedding, were given on loan to needful patients. On the last day of the year, there were on loan 106 beds with bedding, as against 128 at the end of 1925. In addition, at the end of 1926, there were 2 sets of bedding on loan, as against 7 at the end of 1925. The loaned beds and bedding continue to be well cared for, and are nearly always returned in good and clean condition, subject to the unavoidable effects of ordinary use.

TABLE XV.—ABERDEEN.—TUBERCULOSIS.—SIZE OF HOUSE IN RELATION TO NOTIFIED CASES AND REGISTERED DEATHS DURING 1926.

|                                                                    |           | 1     | 2      | 3      | 4      | 5                | Institu-<br>tional<br>or not<br>stated. | Totals<br>for<br>1926. | CORRESPONDING<br>TOTALS FOR |       |
|--------------------------------------------------------------------|-----------|-------|--------|--------|--------|------------------|-----------------------------------------|------------------------|-----------------------------|-------|
|                                                                    |           | Room. | Rooms. | Rooms. | Rooms. | Rooms<br>and up. |                                         |                        | 1925.                       | 1924. |
| Respiratory Tuber-<br>culosis (Cases),                             | Male, .   | 14    | 33     | 36     | 15     | 6                | 7                                       | 111                    | 109                         | 154   |
|                                                                    | Female, . | 9     | 38     | 36     | 10     | 7                | 8                                       | 108                    | 118                         | 131   |
| Both Sexes,                                                        | Cases, .  | 23    | 71     | 72     | 25     | 13               | 15                                      | 219                    | 227                         | 285   |
|                                                                    | Deaths, . | 6     | 44     | 38     | 12     | 11               | 8                                       | 119                    | 154                         | 143   |
| Average Number of Inmates,<br>including Patient, . . . }           |           | 4.0   | 3.4    | 6.1    | 5.4    | 6.0              | ...                                     | 5.3                    | 4.7                         | 5.1   |
| Other Tuberculosis .<br>(Cases)                                    | Male, .   | 10    | 28     | 17     | 3      | 2                | 5                                       | 65                     | 68                          | 66    |
|                                                                    | Female, . | 11    | 26     | 18     | 6      | 5                | 6                                       | 72                     | 76                          | 68    |
| Both Sexes, {                                                      | Cases, .  | 21    | 54     | 35     | 9      | 7                | 11                                      | 137                    | 144                         | 134   |
|                                                                    | Deaths, . | 12    | 13     | 21     | 7      | 4                | 6                                       | 63                     | 43                          | 70    |
| Average Number of Inmates,<br>including Patient, . . . }           |           | 3.6   | 5.2    | 5.5    | 6.0    | 6.9              | ...                                     | 5.2                    | 5.3                         | 5.5   |
| All Houses in City at Census, 1921<br>Average Number of Inmates, } |           | 2.2   | 3.9    | 4.7    | 4.7    | 4.8              | ...                                     | 4.2                    | ...                         | ...   |

### VENEREAL DISEASES SERVICES.

#### ATTENDANCES FOR TREATMENT.

During the year, a total of 408 new City cases attended for treatment at the Royal Infirmary, as compared with 434 in 1925. In all, 35 City cases were admitted for in-patient treatment in 1926, as compared with 42 in 1925. The total number of attendances of all City cases during the year was 24,049, as compared with a total of 25,919 in 1925.

#### OPHTHALMIA NEONATORUM.

A total of 48 cases was reported during 1926, as compared with an annual average of 67 during the preceding ten years.

#### VENEREAL DISEASE STATISTICS.

The statistical data (see pp. 33-35) of the incidence and treatment of venereal diseases, as measured under the Joint Scheme, are submitted for the year under review. The statistical data relating to work done in connection with venereal diseases at the City Hospital Sub-Centre are also submitted.

## TOTAL NUMBER OF NEW CASES.

33

| Year                               | WHOLE JOINT SCHEME. |     |           |     |             |    |          |    |             |    |           |     | ABERDEEN CITY CASES ONLY. |    |           |    |             |    |          |    |             |    |           |    |
|------------------------------------|---------------------|-----|-----------|-----|-------------|----|----------|----|-------------|----|-----------|-----|---------------------------|----|-----------|----|-------------|----|----------|----|-------------|----|-----------|----|
|                                    | Total.              |     | Syphilis. |     | Gonorrhoea. |    | Soft Ch. |    | Mixed Infs. |    | Not V. D. |     | Total.                    |    | Syphilis. |    | Gonorrhoea. |    | Soft Ch. |    | Mixed Infs. |    | Not V. D. |    |
|                                    |                     |     |           |     |             |    |          |    |             |    |           |     |                           |    |           |    |             |    |          |    |             |    |           |    |
|                                    | M.                  | F.  | M.        | F.  | M.          | F. | M.       | F. | M.          | F. | M.        | F.  | M.                        | F. | M.        | F. | M.          | F. | M.       | F. | M.          | F. | M.        | F. |
|                                    |                     |     |           |     |             |    |          |    |             |    |           |     |                           |    |           |    |             |    |          |    |             |    |           |    |
| 1926                               | 591                 | 97  | 79        | 258 | 32          | 4  | 0        | 5  | 1           | 71 | 44        | 408 | 57                        | 52 | 192       | 23 | 1           | 0  | 2        | 1  | 48          | 32 |           |    |
| 1925                               | 632                 | 85  | 61        | 299 | 52          | 3  | 0        | 5  | 2           | 83 | 42        | 434 | 44                        | 35 | 237       | 38 | 3           | 0  | 1        | 2  | 48          | 26 |           |    |
| 1924                               | 637                 | 101 | 81        | 249 | 46          | 4  | 0        | 22 | 8           | 86 | 40        | 474 | 68                        | 62 | 192       | 36 | 1           | 0  | 15       | 3  | 60          | 37 |           |    |
| 1923                               | 626                 | 109 | 100       | 235 | 41          | 6  | 0        | 21 | 9           | 58 | 44        | 460 | 64                        | 83 | 183       | 29 | 2           | 0  | 13       | 5  | 48          | 33 |           |    |
| 1922                               | 677                 | 139 | 91        | 240 | 49          | 4  | 0        | 21 | 13          | 77 | 43        | 469 | 85                        | 69 | 174       | 30 | 1           | 0  | 15       | 6  | 56          | 33 |           |    |
| Average—<br>1922-1925<br>(4 years) | 643                 | 109 | 83        | 256 | 47          | 4  | 0        | 18 | 8           | 76 | 42        | 459 | 65                        | 62 | 197       | 33 | 2           | 0  | 11       | 4  | 53          | 32 |           |    |

## IN-PATIENT CASES.

| YEAR.                              | WHOLE JOINT SCHEME. |    |           |    |             |     |          |    |             |    |          |    | ABERDEEN CITY CASES ONLY. |    |           |    |             |     |          |     |             |     |          |    |
|------------------------------------|---------------------|----|-----------|----|-------------|-----|----------|----|-------------|----|----------|----|---------------------------|----|-----------|----|-------------|-----|----------|-----|-------------|-----|----------|----|
|                                    | TOTAL.              |    | Syphilis. |    | Gonorrhoea. |     | Soft Ch. |    | Mixed Infs. |    | Not V.D. |    | TOTAL.                    |    | Syphilis. |    | Gonorrhoea. |     | Soft Ch. |     | Mixed Infs. |     | Not V.D. |    |
|                                    |                     |    |           |    |             |     |          |    |             |    |          |    |                           |    |           |    |             |     |          |     |             |     |          |    |
|                                    | M.                  | F. | M.        | F. | M.          | F.  | M.       | F. | M.          | F. | M.       | F. | M.                        | F. | M.        | F. | M.          | F.  | M.       | F.  | M.          | F.  | M.       | F. |
| 1926                               | 78                  | 14 | 15        | 26 | 14          | ... | ...      | 1  | 6           | 2  | ...      | 35 | 3                         | 7  | 13        | 8  | ...         | ... | 4        | ... | ...         | ... | ...      |    |
| 1925                               | 84                  | 17 | 13        | 29 | 15          | 0   | 0        | 2  | 7           | 1  | 0        | 42 | 6                         | 4  | 17        | 10 | 0           | 0   | 0        | 5   | 0           | 0   | 0        |    |
| 1924                               | 69                  | 14 | 8         | 21 | 12          | 0   | 0        | 5  | 9           | 0  | 0        | 28 | 7                         | 3  | 9         | 4  | 0           | 0   | 4        | 1   | 0           | 0   | 0        |    |
| 1923                               | 63                  | 16 | 6         | 13 | 12          | 2   | 0        | 5  | 7           | 0  | 2        | 22 | 5                         | 3  | 6         | 4  | 1           | 0   | 1        | 1   | 0           | 1   | 1        |    |
| 1922                               | 54                  | 10 | 9         | 13 | 10          | 0   | 0        | 1  | 9           | 0  | 2        | 16 | 2                         | 4  | 6         | 2  | 0           | 0   | 0        | 1   | 0           | 1   | 1        |    |
| Average—<br>1922-1925<br>(4 years) | 67                  | 14 | 9         | 19 | 12          | 1   | 0        | 3  | 8           | 0  | 1        | 27 | 5                         | 3  | 10        | 5  | 0           | 0   | 1        | 2   | 0           | 1   | 1        |    |

## ATTENDANCES OF ALL CASES.

| Year.                              | WHOLE JOINT SCHEME. |           |       |             |       |          |    |             |       |          | FABERDEN CITY CASES ONLY. |        |           |       |             |       |          |    |             |       |          |    |
|------------------------------------|---------------------|-----------|-------|-------------|-------|----------|----|-------------|-------|----------|---------------------------|--------|-----------|-------|-------------|-------|----------|----|-------------|-------|----------|----|
|                                    | TOTAL.              | Syphilis. |       | Gonorrhoea. |       | Soft Ch. |    | Mixed Infs. |       | Not V.D. |                           | TOTAL. | Syphilis. |       | Gonorrhoea. |       | Soft Ch. |    | Mixed Infs. |       | Not V.D. |    |
|                                    |                     | M.        | F.    | M.          | F.    | M.       | F. | M.          | F.    | M.       | F.                        |        | M.        | F.    | M.          | F.    | M.       | F. | M.          | F.    | M.       | F. |
|                                    |                     |           |       |             |       |          |    |             |       |          |                           |        |           |       |             |       |          |    |             |       |          |    |
| 1926                               | 27,251              | 3,712     | 4,296 | 12,766      | 3,412 | 7        | 0  | 1,721       | 1,171 | 83       | 83                        | 24,049 | 2,988     | 3,541 | 11,448      | 3,282 | 2        | 0  | 1,543       | 1,119 | 55       | 71 |
| 1925                               | 29,744              | 3,432     | 3,773 | 14,867      | 4,171 | 16       | 0  | 2,072       | 1,167 | 140      | 106                       | 25,919 | 2,709     | 3,112 | 13,135      | 3,962 | 16       | 0  | 1,815       | 1,000 | 83       | 87 |
| 1924                               | 26,843              | 3,628     | 3,829 | 13,400      | 3,448 | 32       | 1  | 1,336       | 881   | 112      | 116                       | 23,861 | 2,875     | 3,341 | 12,241      | 3,242 | 6        | 1  | 1,233       | 755   | 85       | 79 |
| 1923                               | 24,157              | 3,959     | 3,892 | 10,485      | 3,607 | 18       | 8  | 858         | 1,128 | 117      | 85                        | 21,286 | 3,191     | 3,346 | 9,706       | 3,225 | 10       | 1  | 709         | 965   | 75       | 58 |
| 1922                               | 23,415              | 4,485     | 3,366 | 10,878      | 2,586 | 14       | 0  | 998         | 892   | 126      | 70                        | 20,550 | 3,670     | 2,832 | 10,051      | 2,176 | 9        | 0  | 930         | 727   | 96       | 56 |
| Average—<br>1922-1925<br>(4 years) | 26,040              | 3,876     | 3,715 | 12,408      | 3,453 | 20       | 2  | 1,331       | 1,017 | 124      | 94                        | 22,904 | 3,111     | 3,158 | 11,281      | 3,151 | 10       | 1  | 1,172       | 862   | 85       | 70 |

## LABORATORY EXAMINATIONS.

## (a) Total Number.

| YEAR.                              | WHOLE JOINT SCHEME. |             |       |             |      |             |       | *ABERDEEN CITY CASES ONLY |             |       |             |      |             |       |
|------------------------------------|---------------------|-------------|-------|-------------|------|-------------|-------|---------------------------|-------------|-------|-------------|------|-------------|-------|
|                                    | TOTAL.              | Syphilis.   |       |             |      | Gonorrhoea. |       | TOTAL.                    | Syphilis.   |       |             |      | Gonorrhoea. |       |
|                                    |                     | Wassermann. |       | Spirochete. |      | Gonococcus. |       |                           | Wassermann. |       | Spirochete. |      | Gonococcus. |       |
|                                    |                     | Pos.        | Neg.  | Pos.        | Neg. | Pos.        | Neg.  |                           | Pos.        | Neg.  | Pos.        | Neg. | Pos.        | Neg.  |
| 1926                               | 9,708               | 1,848       | 4,534 | 11          | 69   | 380         | 2,866 | 7,973                     | 1,444       | 3,834 | 10          | 67   | 315         | 2,303 |
| 1925                               | 7,811               | 1,470       | 3,564 | 9           | 114  | 465         | 2,189 | 6,366                     | 1,125       | 2,900 | 6           | 105  | 396         | 1,834 |
| 1924                               | 7,426               | 1,408       | 3,383 | 13          | 91   | 415         | 2,116 | 5,971                     | 1,069       | 2,770 | 11          | 82   | 341         | 1,698 |
| 1923                               | 7,164               | 1,459       | 3,163 | 41          | 117  | 514         | 1,870 | 5,635                     | 1,115       | 2,518 | 27          | 105  | 407         | 1,463 |
| 1922                               | 6,336               | 1,128       | 3,211 | 54          | 129  | 415         | 1,399 | 4,869                     | 862         | 2,544 | 34          | 115  | 312         | 1,002 |
| Average—<br>1922-1925<br>(4 years) | 7,184               | 1,366       | 3,330 | 29          | 113  | 452         | 1,894 | 5,710                     | 1,043       | 2,683 | 19          | 102  | 334         | 1,499 |

(b) Included in the foregoing Table (a) are the following number of specimens sent by private practitioners.

| YEAR.                              | WHOLE JOINT SCHEME. |             |      |             |      |             |      | *ABERDEEN CITY CASES ONLY. |             |      |             |      |             |      |
|------------------------------------|---------------------|-------------|------|-------------|------|-------------|------|----------------------------|-------------|------|-------------|------|-------------|------|
|                                    | TOTAL.              | Syphilis.   |      |             |      | Gonorrhoea. |      | TOTAL.                     | Syphilis.   |      |             |      | Gonorrhoea. |      |
|                                    |                     | Wassermann. |      | Spirochete. |      | Gonococcus. |      |                            | Wassermann. |      | Spirochete. |      | Gonococcus. |      |
|                                    |                     | Pos.        | Neg. | Pos.        | Neg. | Pos.        | Neg. |                            | Pos.        | Neg. | Pos.        | Neg. | Pos.        | Neg. |
| 1926                               | 641                 | 145         | 333  | 2           | 8    | 54          | 99   | 379                        | 71          | 170  | 2           | 7    | 44          | 85   |
| 1925                               | 631                 | 121         | 283  | 1           | 9    | 50          | 167  | 413                        | 60          | 146  | 1           | 9    | 45          | 152  |
| 1924                               | 702                 | 155         | 261  | 3           | 6    | 58          | 219  | 478                        | 82          | 152  | 3           | 6    | 48          | 187  |
| 1923                               | 749                 | 119         | 321  | 1           | 15   | 80          | 213  | 519                        | 62          | 196  | 1           | 15   | 69          | 176  |
| 1922                               | 873                 | 124         | 433  | 2           | 8    | 72          | 234  | 550                        | 72          | 239  | 2           | 8    | 56          | 173  |
| Average—<br>1922-1925<br>(4 years) | 739                 | 130         | 325  | 2           | 9    | 65          | 208  | 490                        | 69          | 183  | 2           | 9    | 55          | 172  |

(c) Included in Table (a) are also the undernoted numbers of bodies of infants, mostly still-born (all from City) examined for Syphilis.

| YEAR.                       | Number of Bodies Examined. | Number found to contain the Spirochete of Syphilis |
|-----------------------------|----------------------------|----------------------------------------------------|
| 1926                        | 25                         | 2                                                  |
| 1925                        | 69                         | 3                                                  |
| 1924                        | 65                         | 3                                                  |
| 1923                        | 65                         | 7                                                  |
| 1922                        | 65                         | 5                                                  |
| Average—1922-1925 (4 years) | 66                         | 5                                                  |

TABLE XVII.—SUB-CENTRE AT ABERDEEN CITY FEVER HOSPITAL  
FOR TREATMENT OF CERTAIN CITY CASES.

## TOTAL NUMBER OF NEW CASES.

| YEAR.                      | TOTAL. | Syphilis. |    | Gonorrhœa. |    | Soft Ch. |    | Mixed Infs. |    | Not V.D. |    |
|----------------------------|--------|-----------|----|------------|----|----------|----|-------------|----|----------|----|
|                            |        | M.        | F. | M.         | F. | M.       | F. | M.          | F. | M.       | F. |
| 1926                       | 146    | 18        | 22 | 37         | 25 | 0        | 0  | 2           | 4  | 20       | 18 |
| 1925                       | 106    | 12        | 20 | 38         | 28 | 0        | 0  | 1           | 1  | 4        | 2  |
| 1924                       | 56     | 6         | 11 | 16         | 18 | 0        | 0  | 1           | 2  | 0        | 2  |
| 1923                       | 8      | 3         | 4  | 1          | 0  | 0        | 0  | 0           | 0  | 0        | 0  |
| 1922                       | 22     | 15        | 5  | 0          | 2  | 0        | 0  | 0           | 0  | 0        | 0  |
| Aver.—1922-25<br>(4 years) | 48     | 9         | 10 | 14         | 12 | 0        | 0  | 0·5         | 1  | 1        | 1  |

## IN-PATIENT CASES.

| YEAR.                      | TOTAL. | Syphilis. |    | Gonorrhœa. |    | Soft Ch. |    | Mixed Infs. |    | Not V.D. |     |
|----------------------------|--------|-----------|----|------------|----|----------|----|-------------|----|----------|-----|
|                            |        | M.        | F. | M.         | F. | M.       | F. | M.          | F. | M.       | F.  |
| 1926                       | 22     | 4         | 6  | 5          | 2  | 0        | 0  | 0           | 3  | 1        | 1   |
| 1925                       | 19     | 5         | 5  | 3          | 3  | 0        | 0  | 1           | 0  | 1        | 1   |
| 1924                       | 14     | 2         | 3  | 4          | 5  | 0        | 0  | 0           | 0  | 0        | 0   |
| 1923                       | 5      | 2         | 2  | 1          | 0  | 0        | 0  | 0           | 0  | 0        | 0   |
| 1922                       | 10     | 4         | 4  | 0          | 2  | 0        | 0  | 0           | 0  | 0        | 0   |
| Aver.—1922-25<br>(4 years) | 12     | 3         | 4  | 2          | 2  | 0        | 0  | 0·2         | 0  | 0·2      | 0·2 |

## ATTENDANCES.

| YEAR                       | TOTAL. | Syphilis. |     | Gonorrhœa. |       | Soft Ch. |    | Mixed Infs. |     | Not V.D. |     |
|----------------------------|--------|-----------|-----|------------|-------|----------|----|-------------|-----|----------|-----|
|                            |        | M.        | F.  | M.         | F.    | M.       | F. | M.          | F.  | M.       | F.  |
| 1926                       | 6,712  | 225       | 352 | 2,808      | 2,294 | 0        | 0  | 261         | 247 | 71       | 454 |
| 1925                       | 4,189  | 98        | 207 | 1,803      | 2,053 | 0        | 0  | 17          | 4   | 5        | 2   |
| 1924                       | 1,144  | 59        | 81  | 362        | 556   | 0        | 0  | 1           | 82  | 0        | 3   |
| 1923                       | 131    | 98        | 27  | 3          | 3     | 0        | 0  | 0           | 0   | 0        | 0   |
| 1922                       | 248    | 196       | 50  | 0          | 2     | 0        | 0  | 0           | 0   | 0        | 0   |
| Aver.—1922-25<br>(4 years) | 1,428  | 113       | 91  | 542        | 654   | 0        | 0  | 5           | 21  | 1        | 1   |

## LABORATORY EXAMINATIONS.

| YEAR.                          | TOTAL. | SYPHILIS.   |           |             |           | GONORRHŒA.  |           |
|--------------------------------|--------|-------------|-----------|-------------|-----------|-------------|-----------|
|                                |        | Wassermann. |           | Spirochete. |           | Gonococcus. |           |
|                                |        | Positive.   | Negative. | Positive.   | Negative. | Positive.   | Negative. |
| 1926                           | 2,317  | 168         | 588       | 3           | 1         | 147         | 1,410     |
| 1925                           | 1,561  | 92          | 340       | 1           | 2         | 140         | 986       |
| 1924                           | 733    | 79          | 256       | 0           | 2         | 70          | 326       |
| 1923                           | 194    | 52          | 117       | 2           | 2         | 8           | 13        |
| 1922                           | 184    | 40          | 129       | 0           | 3         | 3           | 9         |
| Average—1922-1925<br>(4 years) | 668    | 66          | 211       | 1           | 2         | 55          | 333       |

## BLIND PERSONS SERVICES.

During the year 1926, there were 7 persons who applied for and received from the Town Council assistance towards their maintenance during the period of technical training. At the end of December, 1926, 20 persons in all were receiving such assistance.

---

## MATERNITY AND CHILD WELFARE SERVICES.

## INFANTILE MORTALITY.

During the year 1926, there were 328 deaths among children under one year of age, as compared with an average of 433 during the 1921-1925 quinquennium. The infant-mortality rate, expressed as deaths per 1,000 births, was 96 during 1926, as against an average of 115 during the preceding quinquennium. This is the lowest infant-mortality rate yet recorded.

The chief cause of mortality among infants in 1926, as appearing in Table XVIII., was, as usual, prematurity, with 69 deaths, as against an average of 88 for the preceding quinquennium. About three-fourths of the deaths from this cause took place within the first week of birth.

The second chief cause of death was respiratory diseases, which accounted for 58 deaths, as against an average of 82 in the 1921-1925 quinquennium.

Atrophy, debility, and marasmus, as also diseases of the digestive system, including diarrhoea, each accounted for 43 deaths, as against an average of 82 and 39 respectively during the preceding five years.

Convulsions come next, with 19 deaths, as against an average of 25 for the preceding quinquennium.

Next among the causes of death are the specific infectious diseases, of which tuberculosis, whooping-cough, and measles are the chief.

Table XIX. shows the death-rates among children under one year of age, in terms of (a) legitimate deaths per 1,000 legitimate births, (b) illegitimate deaths per 1,000 illegitimate births, and (c) total deaths per 1,000 births.

In Table XX. the causes of death are somewhat differently grouped from those in Table XVIII., and death-rates are substituted for numbers of deaths.

In Table XX. also, two interesting columns show the number of infants surviving at the end of one year from birth, and the proportion which the survivors bear to the population. This rate, which represents the net gain to the population, after the perils peculiar to the first year of life have been passed, was, in 1926, 19.4 per 1,000 of population, as compared with an average of 19.9 for the ten years 1916-1925. This rate is a more exact indication than the birth-rate of the real internal addition to the population.

## BIRTHS.

The figures of the births registered in Aberdeen during 1926 are analysed in detail in Chapter IV. of this Report.



TABLE XIX.—ABERDEEN.—DEATH RATES AMONG CHILDREN UNDER ONE YEAR OF AGE. Year 1926.

[illegible]

\* This column includes all Death-rates in preceding columns.

TABLE XX.—ABERDEEN.—INFANT MORTALITY.—Years 1916-1926.

(Corrected for transferred deaths.)

39

| YEAR.                         | No. of Births. | Births per 1,000 of Population. | Deaths of Infants under 1 year. | Deaths of Infants under 1 year per 1,000 Births. | No. of Survivors. | Survivors per 1,000 of Population. | DEATH-RATES AMONG CHILDREN UNDER 1 YEAR OF AGE FROM CHIEF CAUSES PER 1,000 BIRTHS. |                                                            |            |                          |    |     |     |               |           |              | Death-Rates from All Causes, per 1,000 Births, at Ages |                                   |                                  |
|-------------------------------|----------------|---------------------------------|---------------------------------|--------------------------------------------------|-------------------|------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------|------------|--------------------------|----|-----|-----|---------------|-----------|--------------|--------------------------------------------------------|-----------------------------------|----------------------------------|
|                               |                |                                 |                                 |                                                  |                   |                                    | Prematurity, Congenital Defects, and Dis. of Early Infancy.                        | Dis. of Digest. System, Wasting and Debility, Convulsions. | Pneumonia. | Common Zymotic Diseases. |    |     |     | Tuberculosis. | Syphilis. | Suffocation. | Under 2 Weeks.                                         | Above 2 Weeks and under 6 Months. | Above 6 Months and under 1 Year. |
| 1926 . .                      | 3406           | 21.5                            | 328                             | 96                                               | 3078              | 19.4                               | 30                                                                                 | 31                                                         | 17         | 2                        | 3  | 1   | 0   | 4             | 1         | 1            | 27                                                     | 44                                | 25                               |
| 1925 . .                      | 3390           | 21.4                            | 368                             | 109                                              | 3022              | 19.1                               | 34                                                                                 | 37                                                         | 18         | 4                        | 6  | 1   | 0   | 3             | 1         | 0.3          | 31                                                     | 53                                | 25                               |
| 1924 . .                      | 3437           | 21.8                            | 421                             | 122                                              | 3016              | 19.1                               | 33                                                                                 | 36                                                         | 22         | 6                        | 8  | 1   | 0   | 3             | 2         | 2            | 33                                                     | 57                                | 32                               |
| 1923 . .                      | 3766           | 23.6                            | 391                             | 104                                              | 3375              | 21.2                               | 30                                                                                 | 42                                                         | 18         | 3                        | 1  | 0   | 0   | 3             | 3         | 1            | 33                                                     | 51                                | 20                               |
| 1922 . .                      | 3969           | 24.8                            | 527                             | 133                                              | 3442              | 21.5                               | 31                                                                                 | 37                                                         | 28         | 10                       | 12 | 0.3 | 0   | 2             | 4         | 1            | 32                                                     | 63                                | 38                               |
| 1921 . .                      | 4254           | 26.6                            | 460                             | 108                                              | 3794              | 23.7                               | 30                                                                                 | 42                                                         | 22         | 1                        | 4  | 1   | 0   | 1             | 2         | 1            | 31                                                     | 60                                | 18                               |
| Average 1921-1925             | 3763           | 23.6                            | 433                             | 115                                              | 3330              | 20.9                               | 32                                                                                 | 39                                                         | 22         | 5                        | 6  | 1   | 0   | 2             | 2         | 1            | 32                                                     | 57                                | 26                               |
| 1920 . .                      | 4868           | 30.3                            | 591                             | 121                                              | 4277              | 26.7                               | 33                                                                                 | 42                                                         | 25         | 3                        | 4  | 0.2 | 0.2 | 2             | 4         | 1            | 31                                                     | 69                                | 21                               |
| 1919 . .                      | 3379           | 21.0                            | 399                             | 118                                              | 2980              | 18.5                               | 40                                                                                 | 37                                                         | 21         | 0.3                      | 4  | 1   | 0   | 2             | 4         | 2            | 39                                                     | 54                                | 25                               |
| 1918 . .                      | 2721           | 16.8                            | 390                             | 143                                              | 2331              | 14.4                               | 33                                                                                 | 54                                                         | 26         | 4                        | 7  | 1   | 0   | 3             | 3         | 1            | 29                                                     | 78                                | 36                               |
| 1917 . .                      | 2880           | 17.8                            | 399                             | 139                                              | 2481              | 15.3                               | 26                                                                                 | 49                                                         | 28         | 7                        | 6  | 1   | 0   | 5             | 5         | 2            | 27                                                     | 73                                | 39                               |
| 1916 . .                      | 3546           | 21.8                            | 398                             | 112                                              | 3150              | 19.4                               | 34                                                                                 | 35                                                         | 17         | 1                        | 4  | 1   | 0.3 | 2             | 5         | 3            | 33                                                     | 56                                | 23                               |
| Average 1916-1920             | 3479           | 21.5                            | 435                             | 127                                              | 3044              | 18.9                               | 33                                                                                 | 43                                                         | 23         | 3                        | 5  | 1   | 0.1 | 3             | 4         | 2            | 32                                                     | 66                                | 29                               |
| Average 1916-1925 (ten years) | 3621           | 22.6                            | 434                             | 121                                              | 3187              | 19.9                               | 32                                                                                 | 41                                                         | 23         | 4                        | 6  | 1   | 0.1 | 3             | 3         | 1            | 32                                                     | 61                                | 28                               |

The number of births registered in Aberdeen during the year was 3,557 (3,248 legitimate and 309 illegitimate).

The particulars regarding the live-births and still-births notified during the year to the Health Department are as follows:—

| Attended by                      | No. of Live Births. | No. of Still Births. | No. of Still Births per 1,000 Live Births. |
|----------------------------------|---------------------|----------------------|--------------------------------------------|
| Midwives, . . . . .              | 712                 | 17                   | 24                                         |
| Maternity Hospital—              |                     |                      |                                            |
| (a) In Wards, . . . . .          | 538                 | 46                   | 86                                         |
| (b) at Home, . . . . .           | 165                 | 2                    | 12                                         |
| Medical Practitioners, . . . . . | 2,149               | 79                   | 37                                         |
| Not attended, . . . . .          | ...                 | ...                  | ...                                        |
| TOTAL, . . . . .                 | 3,564               | 144                  | 40                                         |

The bodies of 25 still-born children or children who had died soon after birth were examined for spirochetes, which were found in two cases, giving a percentage of 8·0. Arrangements were made to have the mothers of these children in which spirochetes were found treated at the Venereal Centres.

#### MATERNITY MORTALITY.

There were 20 deaths of women from causes associated with pregnancy or child-birth, including all deaths, whatever the precise cause, within four weeks after child-birth (or later if illness originated in the puerperium). All these deaths were inquired into by the Health Visitors, or information regarding them was obtained from the attending medical practitioners, who co-operate in giving the desired information.

| YEAR.         | NUMBER OF BIRTHS<br>(Corrected for Transfers). | MATERNAL DEATHS.  |                        | PUERPERAL SEPSIS. |                        |
|---------------|------------------------------------------------|-------------------|------------------------|-------------------|------------------------|
|               |                                                | Number of Deaths. | Rate per 1,000 Births. | Number of Deaths. | Rate per 1,000 Births. |
| 1926          | 3,406                                          | 20                | 5·9                    | 8                 | 2·3                    |
| 1925          | 3,390                                          | 21                | 6·2                    | 9                 | 2·7                    |
| 1924          | 3,437                                          | 19                | 5·5                    | 6                 | 1·7                    |
| 1923          | 3,766                                          | 24                | 6·4                    | 8                 | 2·1                    |
| 1922          | 3,969                                          | 30                | 7·6                    | 12                | 3·0                    |
| 1921          | 4,254                                          | 27                | 6·3                    | 6                 | 1·4                    |
| Aver. 1921-25 | 3,763                                          | 24                | 6·4                    | 8                 | 2·2                    |

It will be seen from the table that during 1926 there were 5·9 maternal deaths per 1,000 births, and of these the deaths from sepsis were 2·3 per 1,000 births.

In four cases death occurred before confinement took place, and in one case labour was stated to have occurred prematurely. Eight patients died in their own homes, and twelve in institutions.

As far as can be ascertained from the records, the confinement which proved fatal was the first in nine cases.

## REPORT UNDER THE MIDWIVES (SCOTLAND) ACT, 1915.

The report for the year 1926 under the Midwives (Scotland) Act, 1915, which has already been transmitted to the Central Midwives Board, is herewith submitted:—

The number of midwives who, during the year, intimated their intention to practise in the district was 30.

*Births in Area or District.*

| Total Number of Births during 1926. | Total Number of Deaths of New-born Children (within ten days) during 1926. | Actual Number of Births attended by Midwives during 1926. | Actual Number of Deaths of New-born Children (within ten days) occurring in the practice of Midwives during 1926. | Actual Number of Cases not attended by a Doctor or Midwife during 1926. |         |
|-------------------------------------|----------------------------------------------------------------------------|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|---------|
|                                     |                                                                            |                                                           |                                                                                                                   | Births.                                                                 | Deaths. |
| Live—3,564<br>Still— 144            | 85                                                                         | Live—712<br>Still— 20                                     | 12                                                                                                                | 0<br>0                                                                  | 0<br>0  |

*Cases of Ophthalmia Neonatorum.*

| Total Number of Cases during 1926. | Actual Number of Cases occurring in the practice of Midwives during 1926. | Actual Number of Cases occurring where confinement not attended by a Doctor or Midwife during 1926. |
|------------------------------------|---------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| 48                                 | 17                                                                        | 0                                                                                                   |

*Cases of Puerperal Sepsis.*

| Total Number of Cases during 1926. | Total Number of Deaths during 1926. (Uncorrected for Transfers.) | Actual Number of Cases occurring in the practice of Midwives during 1926. | Actual Number of Deaths occurring in the practice of Midwives during 1926. | Actual Number of cases occurring where confinement not attended by a Doctor or Midwife during 1926. |         |
|------------------------------------|------------------------------------------------------------------|---------------------------------------------------------------------------|----------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|---------|
|                                    |                                                                  |                                                                           |                                                                            | Cases.                                                                                              | Deaths. |
| 36                                 | 8                                                                | 14                                                                        | 2                                                                          | 0                                                                                                   | 0       |

*Cases of Still-birth (Dead Born).*

| Total Number of Cases during 1926. | Actual Number of Cases occurring in the practice of Midwives during 1926. |
|------------------------------------|---------------------------------------------------------------------------|
| 144                                | 17                                                                        |

*Cases of Emergency.*

Notifications were received from midwives of having in 192 cases sent for medical assistance. In all cases medical assistance was obtained. In 145 cases the assistance was required for the mother, and in 47 cases for the child.

*Summary of Cases.*

|                       |   |   |   |   |   |   |     |
|-----------------------|---|---|---|---|---|---|-----|
| 1. During pregnancy   | . | . | . | . | . | . | 17  |
| 2. During parturition | . | . | . | . | . | . | 91  |
| 3. After parturition  | . | . | . | . | . | . | 37  |
| 4. For infant         | . | . | . | . | . | . | 47  |
| Total                 | . | . | . | . | . | . | 192 |

£174 10s. 6d. was paid to doctors for the above services.

*General Report on the Working of the Act.*

During the year the Act has worked smoothly in this area. It was not found necessary to suspend any midwife from practice. The midwives attended 20 per cent. of the confinements in this area.

## HOME VISITATION.

A record of the number of first visits and re-visits to infants under 1 year of age, to children in the 1-5 year period, and to expectant mothers, together with a measure of prematurity, of the nature of infant feeding, and of attendances at the ante-natal clinic, is here submitted:—

## (1) Infants—

(a) Number of first visits, 2,979 (legitimate, 2,713; illegitimate, 266).

(b) Number of re-visits, 36,274 (legitimate, 33,748; illegitimate, 2,526).

Visits by Voluntary workers, 117.

## (c) Number of Infants at age of six months—

|                         |   |   |   |   |   |   |                  |
|-------------------------|---|---|---|---|---|---|------------------|
| (1) Breast fed,         | . | . | . | . | . | . | 984—52 per cent. |
| (2) Bottle fed,         | . | . | . | . | . | . | 725—38 „         |
| (3) Breast plus bottle, | . | . | . | . | . | . | 95— 5 „          |
| (4) Breast plus food,   | . | . | . | . | . | . | 41— 2 „          |
| (5) Bottle plus food,   | . | . | . | . | . | . | 49— 3 „          |
| (6) Food,               | . | . | . | . | . | . | 8                |

Total, . . . . . 1,902

## (d) Number of Infants born—

|                   |   |   |   |   |   |   |                  |
|-------------------|---|---|---|---|---|---|------------------|
| (1) Prematurely,  | . | . | . | . | . | . | 181— 6 per cent. |
| (2) At full term, | . | . | . | . | . | . | 2,696—94 „       |

Total, . . . . . 2,877

## (2) Children (1—5 years)—

(a) Number of first visits, 828.

(b) Number of re-visits, 2,937.

## (3) Expectant Mothers—

(a) Number of first visits, 82.

(b) Number of re-visits, 69.

(c) Number who consulted ante-natal clinic, 78 approx.

## VOLUNTARY HEALTH VISITORS' REPORT.

The Voluntary Health Visitors' report, which is separately submitted, indicates the valuable contribution that is made to the work of Maternity and Child Welfare by the voluntary workers.

## ANTE-NATAL CONSULTATIONS.

The extent and nature of the ante-natal work undertaken during the year at the Maternity Hospital Ante-Natal Annexe (consultations twice weekly, of about two hours' duration), at the City Hospital (consultations once weekly), and at the Child Welfare Clinics (daily consultations) is summarised as follows:—

|                                                                 | Maternity Hospital<br>Ante-Natal Annexe. | City Hospital<br>Ante-Natal Clinic. | Child Welfare<br>Clinics. |
|-----------------------------------------------------------------|------------------------------------------|-------------------------------------|---------------------------|
| Total Number of Attendances, . . . .                            | 1,627                                    | 80                                  | 464                       |
| Total First Attendances, . . . .                                | 650                                      | 46                                  | 397                       |
| Number of First Cases—                                          |                                          |                                     |                           |
| Referred to Ante-Natal Ward, . . . .                            | 151                                      | 2                                   | —                         |
| Referred to family doctor or otherwise, . .                     | 43                                       | 3                                   | 22                        |
| Treated at Clinic, . . . . .                                    | 446                                      | 37                                  | 316                       |
| Referred to Maternity Hospital Ante-<br>Natal Clinic, . . . . . | —                                        | —                                   | 19                        |
| Not Pregnant, . . . . .                                         | 10                                       | 4                                   | —                         |
| Referred to City Hospital Ante-Natal<br>Clinic, . . . . .       | —                                        | —                                   | 40                        |
| Total First Attendances, . . . . .                              | 650                                      | 46                                  | 397                       |

## POST-NATAL AND OTHER CONSULTATIONS.

There were 705 first attendances and 555 re-attendances at post-natal and other consultations during the year.

## CHILD WELFARE CONSULTATIONS.

The extent and nature of the work done at the Child Welfare consultations can be summarised as follows:—

| Name of Centre.                             | Number of<br>Weekly Sessions. | Duration<br>(hrs.). |
|---------------------------------------------|-------------------------------|---------------------|
| Woodside, . . . . .                         | 1                             | 1                   |
| Charlotte Street, . . . . .                 | 2                             | 2 to 2½             |
| Torry, . . . . .                            | 1                             | 1                   |
| Old Aberdeen, . . . . .                     | 1                             | 1                   |
| Holburn (voluntary), . . . . .              | 1                             | 1                   |
| Castlegate, . . . . .                       | 3                             | 1½ to 2½            |
| Gerrard Street (one month in 1926), . . . . | 1                             | 1                   |

(a) Total number of attendances—(1) Under 1 year of age, . . . 3,765

(2) Over 1 year of age, . . . 2,368

(b) Number of first attendances—(1) Under 1 year of age, . . . 1,387

(2) Over 1 year of age, . . . 1,002

| (c) Illnesses recorded—                                           | Children under<br>1 year. | Children over<br>1 year. |
|-------------------------------------------------------------------|---------------------------|--------------------------|
| Digestive System—Feeding, . . . . .                               | 196                       | 24                       |
| Vomiting, . . . . .                                               | 62                        | 19                       |
| Enteritis, . . . . .                                              | 108                       | 69                       |
| Constipation, . . . . .                                           | 103                       | 22                       |
| Malnutrition, . . . . .                                           | 84                        | 50                       |
| Thrush, . . . . .                                                 | 18                        | 12                       |
| Parasitic worms, . . . . .                                        | 1                         | 18                       |
| Respiratory System—Nasal catarrh, . . . . .                       | 39                        | 17                       |
| Bronchitis, . . . . .                                             | 60                        | 38                       |
| Circulatory System, . . . . .                                     | 1                         | 2                        |
| Nervous System, . . . . .                                         | —                         | 4                        |
| Skin—Infective Conditions, . . . . .                              | 11                        | 30                       |
| Other, . . . . .                                                  | 98                        | 47                       |
| Venereal Disease—Syphilis, . . . . .                              | 1                         | 1                        |
| Dental caries, . . . . .                                          | 3                         | 147                      |
| Genito-urinary System, . . . . .                                  | —                         | 5                        |
| Eyes—Acute infections, . . . . .                                  | 14                        | 14                       |
| Refractive errors, . . . . .                                      | 1                         | 16                       |
| Ears, . . . . .                                                   | 28                        | 23                       |
| Nose and Throat—Tonsils and adenoids, . . . . .                   | 3                         | 16                       |
| Other, . . . . .                                                  | —                         | 1                        |
| Infectious diseases, . . . . .                                    | 8                         | 20                       |
| Tuberculosis, . . . . .                                           | —                         | 2                        |
| Enlarged glands, . . . . .                                        | 6                         | 31                       |
| Congenital malformations, . . . . .                               | 43                        | 19                       |
| Bones and joints, . . . . .                                       | —                         | 3                        |
| Accidents, . . . . .                                              | 6                         | 6                        |
| Rickets, . . . . .                                                | 11                        | 96                       |
| Inspection for rickets, . . . . .                                 | —                         | 26                       |
| Hernia, . . . . .                                                 | 48                        | 8                        |
| Hydrocele, . . . . .                                              | 2                         | —                        |
| Vaccination, . . . . .                                            | 333                       | 14                       |
| Inspection, . . . . .                                             | 3                         | 42                       |
| Diphtheria and Scarlet Fever prophylactic inoculations, . . . . . | 12                        | 89                       |
| Normal, . . . . .                                                 | 52                        | 11                       |
| Various, . . . . .                                                | 32                        | 60                       |
| Total, . . . . .                                                  | 1,387                     | 1,002                    |

#### SPECIAL TREATMENT CENTRES.

(1) *Teeth*.—The Dental Clinic which functions under the joint arrangement with the Education Authority and the Town Council provided the following services:—

|                                                  |                  |
|--------------------------------------------------|------------------|
| (a) Number of Attendances—(1) Mothers, . . . . . | 313 (281 cases). |
| (2) Children . . . . .                           | 210 (206 cases). |

## (b) Classified summary of Conditions remedied—

|                     | Extractions. | Local<br>Anaesthetic. | General<br>Anaesthetic. | Fillings. |
|---------------------|--------------|-----------------------|-------------------------|-----------|
| (1) Mothers, . . .  | 1,945        | 5                     | 328                     | 5         |
| (2) Children, . . . | 707          | 3                     | 210                     | 1         |

(c) Number of Dentures supplied—*Nil*.(d) Net cost of Dentures less sums recovered—*Nil*.

(2) *Eyes*.—The Ophthalmic Clinic which functions under the joint arrangement with the Education Authority and the Town Council, and is confined to the treatment of cases suffering from refractive defects, &c., was utilised to the extent of providing treatment for 20 cases of strabismus. In other cases, treatment was obtained by the parents directly from the Aberdeen Royal Infirmary or Eye Institution, and several other cases seen at the Child Welfare Clinics were asked to come up later for examination, as the children were too young to wear glasses or the defect was slight.

(3) *Other Ailments*.—No records available.(4) *Provision of Insulin*.—*Nil*.

## DAY NURSERIES, KINDERGARTENS, AND PLAY CENTRES.

The Day Nursery at Charlotte Street undertakes the main work under this heading, and there is, in addition, a play centre at the Castlegate Child Welfare Centre, which is open daily from 2 to 5 p.m. The attendances and charges at the Charlotte Street Day Nursery are as follows:—

|                                                              |       |
|--------------------------------------------------------------|-------|
| (a) Number of Attendances—(1) Under 1 year of age, . . . . . | 1,740 |
| (2) Over 1 year of age, . . . . .                            | 6,798 |

(b) Charges made—5d. per day for one child; 9d. per day for two children.

(c) Receipts—£163 19s. 9d.

## FOOD AND MILK.

During the year, food and milk were supplied to the following extent:—

|                                                                  |     |
|------------------------------------------------------------------|-----|
| (a) Number of Applicants for Food or Milk—(1) Mothers, . . . . . | 230 |
| (2) Children, . . . . .                                          | 268 |

(b) Number of cases certified on medical grounds as requiring Food or Milk—

|                         |     |
|-------------------------|-----|
| (1) Mothers, . . . . .  | 216 |
| (2) Children, . . . . . | 243 |

(c) Number of cases under (b) certified as necessitous—(1) Mothers . . . . . 216  
(2) Children, . . . . . 243

(d) Gross Cost, £1,019 17s. 3d. Sums Recovered, £310 9s. 11d. Net Cost, £709 7s. 4d.

(e) Information as to supply of Milk Substitutes—

Milk substitutes in the form of Glaxo were supplied to 39 recipients (not included in (b) at cost price on necessitous grounds. Cod Liver Oil Emulsion, Glaxo, Robo-leine, and Virol were supplied at cost price or free, at the discretion of the Medical Officer, where considered necessary. Soup Kitchen Checks, to the number of 1,020, at a cost of 2d. each, were given free to deserving cases, whereby such cases received soup and bread at the Public Soup Kitchen.

## MEASLES AND WHOOPING-COUGH.

As regards children under five years of age suffering from measles and whooping-cough, the following information is submitted:—

|                                                      | Measles. | Whooping-cough |
|------------------------------------------------------|----------|----------------|
| (a) Number of cases notified (partial notification), | 295      | 165            |
| (b) Total number of deaths, . . . . .                | 18       | 13             |
| (1) From measles, . . . . .                          | 2        | 4              |
| (2) From sequelæ, . . . . .                          | 16       | 9              |
| (c) Number of cases removed to Hospital, . . . . .   | 39       | 19             |
| (d) Number of special domiciliary visits—            |          |                |
| (1) First visits, . . . . .                          | 280      | 150            |
| (2) Total visits, . . . . .                          | 374      | 222            |

(e) Details of special staff engaged for epidemics—one health visitor specially engaged for infectious disease work.

## OPHTHALMIA NEONATORUM.

Ophthalmia neonatorum is referred to in the sections of this Report dealing with infectious diseases and venereal diseases. The following additional information is submitted:—

| Year. | Number of Registered Births. | Number of Notified Cases of Ophthalmia Neonatorum. | Rate per 1,000 Registered Births. |
|-------|------------------------------|----------------------------------------------------|-----------------------------------|
| 1926  | 3,557                        | 48                                                 | 13.5                              |
| 1925  | 3,535                        | 59                                                 | 16.7                              |
| 1924  | 3,527                        | 69                                                 | 19.6                              |
| 1923  | 3,847                        | 63                                                 | 16.3                              |
| 1922  | 4,038                        | 47                                                 | 11.6                              |
| 1921  | 4,336                        | 100                                                | 23.1                              |
| 1920  | 5,010                        | 112                                                | 22.4                              |
| 1919  | 3,458                        | 99                                                 | 28.6                              |
| 1918  | 2,794                        | 39                                                 | 13.9                              |
| 1917  | 2,946                        | 42                                                 | 14.3                              |

## Cases notified during 1926—

|                                     |    |
|-------------------------------------|----|
| By Medical Practitioners, . . . . . | 26 |
| By Midwives, . . . . .              | 14 |

## Occurring in the practice of—

|                                  |    |
|----------------------------------|----|
| Medical Practitioners, . . . . . | 26 |
| Midwives, . . . . .              | 17 |

## Maternity Hospital—

|                                  |   |                         |   |
|----------------------------------|---|-------------------------|---|
| By Maternity Hospital, . . . . . | 1 | (a) In Wards, . . . . . | 4 |
| By Health Visitors, . . . . .    | 7 | (b) At Home . . . . .   | 1 |

Number of cases in which infection was gonococcal—3, or 6 per cent. of cases. Two cases were treated in residential institutions.

*Results.*—In one case the child died while under treatment, but the condition of the eyes had improved.

In the remaining 47 cases, a complete cure was obtained.

## EPIDEMIC DIARRHŒA.

Arrangements are in force by which cases will be largely removed to hospital with a view to having the relation of the disease to infection with *B. dysenteriæ* Sonne fully investigated (see p. 16).

## MATERNITY HOSPITALS OR HOMES.

A statement of the in-patient work of the Maternity Hospital and Annexe, and of the work done from the hospital in the homes of the patients, is recorded as follows:—

*Aberdeen Maternity Hospital.*

## (1) Ante-Natal Cases—

|                                                   |     |                                                             |
|---------------------------------------------------|-----|-------------------------------------------------------------|
| (a) Number of cases treated, . . .                | 231 |                                                             |
| (b) Statement of conditions found—                |     | (c) Results of treatment—                                   |
| Hæmorrhage, . . . . .                             | 19  | 18 satisfactory; 1 died.                                    |
| Albuminuria, . . . . .                            | 32  | All satisfactory.                                           |
| "Dublin," . . . . .                               | 38  | "                                                           |
| Pre-maternity rest, . . . . .                     | 50  | "                                                           |
| Hyperemesis gravidarum, . . . . .                 | 20  | 19 satisfactory; 1 died after induction of abortion.        |
| Contracted pelvis—for obser-<br>vation, . . . . . | 22  | All satisfactory; 3 cæsarean; 17 inductions; 2 spontaneous. |
| Cardiac trouble, . . . . .                        | 4   | All satisfactory.                                           |
| Eclampsia, . . . . .                              | 4   | 3 satisfactory; 1 died.                                     |
| Hæmatemesis, . . . . .                            | 2   | Satisfactory.                                               |
| Hydramnios, . . . . .                             | 2   |                                                             |
| Mental condition, . . . . .                       | 1   | "                                                           |
| Nephritis, . . . . .                              | 3   | 2 satisfactory; 1 died.                                     |
| Pyelitis, . . . . .                               | 8   | Satisfactory.                                               |
| Phthisis, . . . . .                               | 2   | "                                                           |
| Post-maturity, . . . . .                          | 9   | Labour induced                                              |
| Miscellaneous, . . . . .                          | 15  |                                                             |

## (2) Abortions—

|                                    |    |                              |
|------------------------------------|----|------------------------------|
| (a) Number of cases treated, . . . | 40 |                              |
| (b) Types of cases—                |    |                              |
| Threatened abortion, . . . . .     | 7  | Of these, 2 aborted.         |
| Inevitable abortion, . . . . .     | 9  | Satisfactory.                |
| Incomplete abortion, . . . . .     | 18 | 14 curetted.                 |
| Induced abortion, . . . . .        | 4  | 1 died from placenta prævia. |
| Missed abortion, . . . . .         | 2  | Satisfactory.                |

Receipts from Ante-natal patients, £105 9s. 10d.

## (3) Abnormal or complicated confinements—

|                                    |    |                                                 |
|------------------------------------|----|-------------------------------------------------|
| (a) Number of cases, . . . . .     | 78 |                                                 |
| (b) Types of cases—                |    |                                                 |
| Placenta prævia, . . . . .         | 5  | 1 live-birth; 4 still births; 1 maternal death. |
| Contracted pelvis, . . . . .       | 6  | 3 cæsarean, satisfactory; 3 perforations.       |
| Accidental hæmorrhage, . . . . .   | 6  | Satisfactory.                                   |
| Prolapse of cord, . . . . .        | 1  | Still-birth.                                    |
| Uncomplicated breech, . . . . .    | 14 | Satisfactory.                                   |
| Complicated breech, . . . . .      | 6  | Still-births.                                   |
| Footling, . . . . .                | 1  | Satisfactory.                                   |
| Obstructed labour, . . . . .       | 17 | 2 died.                                         |
| Cord round child's neck, . . . . . | 1  | Still-birth.                                    |
| Adherent placenta, . . . . .       | 5  | Satisfactory.                                   |
| Eclampsia, . . . . .               | 9  | 7 satisfactory; 2 died.                         |
| Post-natal admissions, . . . . .   | 2  | Satisfactory.                                   |
| Twins, . . . . .                   | 5  | All live-births.                                |

- (4) Other cases of confinement—  
 (a) Normal deliveries, . . . . 452  
 (b) Without medical attendance, 416  
 (c) Instrumental deliveries, . . . 84  
 (d) Cases of Morbidity, . . . . 23 Including those in "e."  
 (e) Cases of Morbidity, instrumen-  
     tal, . . . . . 5  
 (f) Number of deaths, . . . . 5
- (5) Receipts from natal patients—£887 10s. 4d.
- (6) (a) Infants born—live, 573; still, 46.  
 (b) Twins born—live, 5; still, 0.
- (7) Deaths of infants under 10 days old, 17.
- (8) Number of cases of puerperal sepsis removed from institution, 0.

#### HOMES FOR UNMARRIED MOTHERS BEFORE AND AFTER CONFINEMENT.

Unmarried mothers in their second or subsequent pregnancies are admitted to Loch Street Home. This home is centrally situated and permits mothers who are employed to continue breast-feeding. Unmarried mothers with their first pregnancy are admitted to Burnside Home. A total of 27 unmarried mothers was admitted to Loch Street Home, and 29 unmarried mothers to Burnside Home.

#### HOSPITALS FOR SICK CHILDREN.

The *Royal Hospital for Sick Children* is a voluntary institution, and surgical and medical cases are freely admitted there. No separate records are kept of the work done in connection with the treatment of children under five years of age, nor are City cases differentiated from County cases.

The *Marasmus Ward at the City Hospital* provides 22 cots for infants suffering chiefly from nutritional disorders. In all, a total of 170 infants was admitted to this ward during the year.

|                                                    | Under One Year. | Over One Year |
|----------------------------------------------------|-----------------|---------------|
| Number in Hospital on 1st January, 1926, . . . .   | 12              | 9             |
| Number of Admissions during year, . . . .          | 98              | 72            |
| Number in Hospital on 31st December, 1926, . . . . | 13              | 8             |
| Number discharged or died during year, . . . .     | 97              | 73            |

The conditions treated, with the results of treatment, were as follows:—

|                                       | Cases.    | Improved. | Died.    |
|---------------------------------------|-----------|-----------|----------|
| Digestive System—Vomiting, . . . .    | 23        | 19        | 3        |
| Enteritis, . . . .                    | 33        | 17        | 8        |
| Constipation, . . . .                 | 1         | 1         | —        |
| Malnutrition, . . . .                 | 27        | 20        | 5        |
| Respiratory System—Pneumonia, . . . . | 1         | —         | 1        |
| Bronchitis, . . . .                   | 3         | 2         | —        |
| Skin—Infective conditions, . . . .    | 1         | 1         | —        |
| Other, . . . .                        | 3         | 2         | 1        |
| Venereal Disease—Syphilis, . . . .    | 2         | 1         | 1        |
| Eye Conditions, . . . .               | 3         | 1         | 1        |
| Rickets, . . . .                      | 40        | 32        | —        |
| Prematurity, . . . .                  | 2         | 1         | 1        |
| Miscellaneous, . . . .                | 22        | 19        | 1        |
|                                       | <hr/> 161 | <hr/> 116 | <hr/> 22 |

The following are the particulars with regard to those children removed at request of parents, or transferred to other wards:—

|                                          |    |
|------------------------------------------|----|
| Whooping-cough, . . . . .                | 1  |
| Meningitis . . . . .                     | 1  |
| Dysentery (Sonne), . . . . .             | 6  |
| Dysentery (Flexner), . . . . .           | 1  |
| Removed at request of parents, . . . . . | 23 |
|                                          | —  |
|                                          | 32 |
|                                          | == |

Average period of residence—36 days.

#### CONVALESCENT HOMES.

Burnside Home provides accommodation for 11 mothers and 30 infants. The Home is mainly utilised for the admission of married women after their confinement, with the object of providing them with rest and instruction in baby care.

Loch Street Home provides accommodation for 10 mothers and 10 infants, and is mainly used for admission of unmarried mothers both before and after confinement. Details of cases treated are as follows:—

| Number of cases treated—         | Burnside Home | Loch Street Home |
|----------------------------------|---------------|------------------|
| Mothers, . . . . .               | 96            | 23               |
| Children under 1 year, . . . . . | 118           | 10               |
| Children over 1 year, . . . . .  | 17            | 30               |
|                                  | —             | —                |
|                                  | 231           | 63               |
|                                  | ==            | ==               |
| Average duration of residence—   |               |                  |
| Mothers, . . . . .               | 23 days. ...  | 28 days.         |
| Children, . . . . .              | 65 days. ...  | 26 days.         |
| Note as to Infectious Disease—   |               |                  |
| Whooping-cough, . . . . .        | 2 cases. ..   | —                |
| Dysentery (Sonne), . . . . .     | 1 case. ...   | —                |
|                                  | —             | —                |
|                                  | 3 cases. ...  | —                |
|                                  | ==            | ==               |

#### BOARDING-OUT.

No arrangements are made for boarding-out City infants.

#### HOME-HELPS.

In all 23 home-helps were employed for 23 cases, for an average of 39 days, to assist in the homes of mothers during their confinement. In none of the cases was it considered advisable to make a charge for these services, which cost in all £41 16s. 6d. for the year.

#### EDUCATIONAL.

The short courses of Health Lectures for women by Dr. Sandeman and Dr. Howie were continued in 1926.

In the autumn term the ordinary courses of lectures were resumed at Castlegate Centre by Dr. Saudeman, and at Charlotte Street Centre by Dr. Howie. The following are the particulars of enrolment and attendance at these Centres:—

|                         | No.<br>enrolled. |     | Total<br>Attendance. |     | Average daily<br>Attendance |     | No making 75 per<br>cent. of Attendances. |
|-------------------------|------------------|-----|----------------------|-----|-----------------------------|-----|-------------------------------------------|
| Castlegate, . . . .     | 34               | ... | 149                  | ... | 19                          | ... | 17                                        |
| Charlotte Street, . . . | 42               | ... | 162                  | ... | 20                          | ... | 15                                        |

Women making 75 per cent. of the attendances received certificates of attendance.

*Lectures and Demonstrations at Child Welfare Centres.*—From September to June, lectures or talks of half an hour's duration on Motherhood and Infant Care are given by the Child Welfare Medical Officer to mothers attending the Centres. At each Centre cooking demonstrations are given once a month by one of the voluntary workers, or by a Domestic Science teacher from the Education Authority's staff, and demonstrations on dressmaking, &c., are given once a month by one of the voluntary workers. The attendances of the mothers at these meetings are given in the annual report of the Aberdeen Mother and Child Welfare Association.

#### NOTE OF AGENCIES, NOT REFERRED TO ABOVE, ASSOCIATED WITH SCHEME.

The Department works in close co-operation with the Aberdeen Association for Improving the Condition of the Poor. The Shelter for children recently provided by the Association has proved of great value.

#### OTHER PROVISIONS.

Cases of pneumonia are admitted to the City Hospital when the home conditions are unsatisfactory. Cases of bronchitis are similarly admitted to the City Hospital or to the Sick Children's Hospital. Cases of acute poliomyelitis are treated in the City Hospital during the acute stage of illness, and later receive out-patient treatment at the Sick Children's Hospital.

---

### PORT SANITARY SERVICES.

#### TRADE AND SHIPPING.

The total foreign and coastwise shipping entering the Port during 1926 was 18,529 vessels, of which 2,445 were foreign. The total tonnage of all vessels was 1,846,464, of which 371,420 was foreign.

The British ports with which Aberdeen trades mostly include Blyth, Dundee, Grangemouth, Granton, Hull, Leith, Lerwick, Liverpool, London, Middlesbrough, Newcastle, Seaham, Shields, Sunderland, Tyne, Wick, and the Orkney and Shetland Islands.

The foreign ports with which Aberdeen has most trade include Antwerp, Archangel, Drammen, Gothenburg, Hamburg, Karlshamm, Larvik, New York, Oslo, Riga, Rotterdam, and North African ports.

The principal imports to Aberdeen are of the following nature, viz.:—Cement, coals, esparto grass, fish, flax, flour, granite, hemp, iron, jute, linseed and rape seed, maize, oilcake, oils, phosphates, salts, wood, wood pulp, and cattle, pigs, and sheep.

The principal exports are as follows:—Fish, flour, granite, hides and skins, jute (manufactured), manure (manufactured), oatmeal, oats, oilcake, oils, paper and paper boxes, pitch, preserved provisions, soap, and cattle, pigs, and sheep.

#### MEDICAL INSPECTION OF SHIPPING.

The amount of shipping entering the Port during the year, distinguished as foreign and coastwise, together with the number of ships inspected and the nature of the defects and number of notices issued in connection therewith, are set forth in the following table:—

|                                       |                    | Number<br>of<br>Vessels. | Tonnage<br>of<br>Vessels. | NUMBER INSPECTED.                             |                                  | Number<br>reported<br>to be<br>Defective. | Number<br>of<br>Notices<br>issued. |
|---------------------------------------|--------------------|--------------------------|---------------------------|-----------------------------------------------|----------------------------------|-------------------------------------------|------------------------------------|
|                                       |                    |                          |                           | By the<br>Medical<br>Officer<br>of<br>Health. | By the<br>Sanitary<br>Inspector. |                                           |                                    |
| Foreign—                              | Steamers . . . . . | 514                      | 349,005                   | 27                                            | 288                              | 25                                        | 24                                 |
|                                       | Motor . . . . .    | 8                        | 3,596                     | ...                                           | 9                                | 2                                         | ...                                |
|                                       | Sailing . . . . .  | 10                       | 1,015                     | ...                                           | 1                                | ...                                       | ...                                |
|                                       | Fishing . . . . .  | 1,913                    | 17,804                    | ...                                           | 12                               | .                                         | ...                                |
| Total Foreign . . . . .               |                    | 2,445                    | 371,420                   | 27                                            | 310                              | 27                                        | 24                                 |
| Coastwise—                            | Steamers . . . . . | 1,342                    | 447,616                   | ...                                           | 168                              | 9                                         | 6                                  |
|                                       | Motor . . . . .    | 25                       | 8,379                     | ...                                           | 10                               | 1                                         | ...                                |
|                                       | Sailing . . . . .  | 5                        | 468                       | ...                                           | 1                                | ...                                       | ...                                |
|                                       | Fishing . . . . .  | 14,712                   | 1,018,581                 | ...                                           | 10                               | 1                                         | 1                                  |
| Total Coastwise . . . . .             |                    | 16,084                   | 1,475,044                 | ...                                           | 189                              | 11                                        | 7                                  |
| Total Foreign and Coastwise . . . . . |                    | 18,529                   | 1,846,464                 | 27                                            | 499                              | 38                                        | 31                                 |

It will be seen that of the 18,529 vessels entering the Port, 14,712 were fishing vessels. In general, it may be said that the danger of fishing vessels importing infectious disease is largely confined to vessels from English or German ports introducing small-pox or other infectious diseases from these countries. The main sanitary control of fishing vessels has reference to remedying sanitary defects and verminous conditions. Arrangements have been made whereby the sanitary control of fishing vessels will be extended with special reference to dealing with verminous conditions.

In all, 8 persons, from 8 vessels, were removed to hospital for treatment during the year. Two of the patients were suffering from typhoid fever (no association between the cases), 1 from malaria, 1 from influenza, and 2 from bronchitis. Two cases of vermin were also treated in hospital. Five of the cases occurred on trawlers. The necessary disinfection was carried out in each case.

### RAT DESTRUCTION—PRECAUTIONS AGAINST PLAGUE.

Trapping of rats within the area of the Harbour Commissioners is regularly carried out, and these rats are submitted to laboratory examination for plague. In all, 72 rats were thus examined in Aberdeen during 1926, but no laboratory evidence of plague infection in the rats was obtained.

The following measure of the work on rat destruction carried out by the two whole-time rat-catchers of the Health Department is submitted:—

|                                                  |                         |
|--------------------------------------------------|-------------------------|
| Number of pieces of poison bait laid, . . . . .  | 96,182.                 |
| Number of pieces of poison bait eaten, . . . . . | 31,424.                 |
| Liquid poison laid, . . . . .                    | 13 pints.               |
| Liquid poison consumed, . . . . .                | 5 pints.                |
| Dry poison bait (mice) laid, . . . . .           | 45 ounces.              |
| Dry poison bait (mice) eaten, . . . . .          | 7 $\frac{3}{4}$ ounces. |

In addition, liquid poison in the form of red squills was sold by the Health Department to occupiers of business premises and dwelling-houses within the City. The quantity sold amounted to 28 $\frac{1}{4}$  gallons, sufficient for the making up of 54,300 baits; and from the returns obtained from the purchasers it would appear that approximately 51 per cent. of the baits were eaten.

Two ships from plague-infected ports entered Aberdeen during the year:—

| Name of Vessel.             | Date of arrival.       | Where from.   |
|-----------------------------|------------------------|---------------|
| "Burmese Prince," . . . . . | 30th June, . . . . .   | Bombay.       |
| "Rosario," . . . . .        | 30th August, . . . . . | Fayal Island. |

Neither of these vessels from plague-infected ports was either infected or suspected, nor was there any evidence obtained, on inspection or on inquiry at the masters or among the crews, that the ships were rat-infested.

Three vessels (not from plague-infected ports) in which evidence was obtained that rats were present on board were dealt with, poison baits to the number of 274 being laid, 38 of these being removed by rats. Fumigation of these vessels was not employed.

One certificate of fumigation was issued on Form Port 10 in connection with vessels proceeding to U.S.A. ports.

---

### VETERINARY SERVICES.

The activities of the Health Department that are subject for discussion under "Veterinary Services," relate mainly to the control of food supplies.

#### Milk Control.

##### THE MILK AND DAIRIES (SCOTLAND) ACT, 1914.

The administrative arrangements for putting into operation the Milk and Dairies (Scotland) Act, 1914, have been fully described in the Annual Report for 1925.

### CERTIFIED MILK.

In 1926, three firms of milk retailers, viz., The Aberdeen Dairy Company, Limited, Mr. William Reith, 46-48, Rose Street, and Mr. John Bain, 22A, Broomhill Road, had their licences to retail Certified Milk renewed, and a fourth firm of milk retailers, viz., Findlay's Dairy, 457, Union Street, was licensed.

### MARKET MILK.

In 1926, a total of 90 milk samples was examined for the presence of tubercle bacilli, and reference to the accompanying table shows that tubercle bacilli were present in 7 of the samples, or 7·8 per cent. Of 132 samples examined in 1925, 3·0 per cent. contained tubercle bacilli; and of 176 samples examined in 1924, 5·1 per cent. contained tubercle bacilli. As regards the general bacterial examination of market milk, a total of 108 samples was examined during 1926, and the table shows that 79 of these samples, or 73·1 per cent., as compared with 59·2 per cent. in 1922, did not contain more than 200,000 organisms per cubic centimetre.

#### *Bacteriological Examination of Milk Samples.*

| Year. | TUBERCLE. |      |      | GENERAL BACTERIA—No in 1 c.c. |               |         |          |         |            |            |                         |
|-------|-----------|------|------|-------------------------------|---------------|---------|----------|---------|------------|------------|-------------------------|
|       | No.       | Pos. | Neg. | No.                           | Not exceeding |         |          |         |            |            | Exceeding<br>5,000,000. |
|       |           |      |      |                               | 10,000.       | 50,000. | 100,000. | 200,000 | 1,000,000. | 5,000,000. |                         |
| 1926  | 90        | 7    | 83   | 108                           | 15            | 38      | 12       | 14      | 16         | 8          | 5                       |
| 1925  | 132       | 4    | 128  | 171                           | 27            | 67      | 31       | 17      | 21         | 7          | 1                       |
| 1924  | 176       | 9    | 167  | 274                           | 14            | 106     | 54       | 24      | 47         | 15         | 14                      |
| 1923  | 230       | 13   | 217  | 392                           | 23            | 113     | 78       | 39      | 90         | 35         | 14                      |
| 1922  | 219       | 11   | 208  | 478                           | 18            | 140     | 70       | 55      | 112        | 55         | 28                      |

A record of the work done during 1926 in connection with the chemical examination of market milk is contained in the Annual Report of the Sanitary Inspector.

### DAIRY HERDS.

The number of dairy herds in the City is showing a gradual decline. During 1926, there were only 18 herds, the average number of cows being 197. The herds were inspected once a month. The sanitary condition of the premises was, on the whole, satisfactory.

### Meat Control.

#### MEAT INSPECTION.

There are five slaughter-houses in the City, and, as has been pointed out in preceding Reports, it is impossible to secure adequate inspection of meat in five widely separated slaughter-houses.

The number and class of animals killed in the five slaughter-houses during the year were as follows :—

| Cattle. |          |       |        |         | Sheep. |        | Pigs. |
|---------|----------|-------|--------|---------|--------|--------|-------|
| Oxen.   | Heifers. | Cows. | Bulls. | Calves. | Sheep. | Lambs. |       |
| 26,511  | 18,060   | 286   | 456    | 120     | 70,359 | 5,650  | 2,497 |

The following table gives the number of carcasses inspected and the weight of meat seized as unfit for human food during the year :—

|                                                    | Oxen.       | Bulls.     | Cows.       | Heifers.    | Calves.    | Sheep.     | Pigs.      |
|----------------------------------------------------|-------------|------------|-------------|-------------|------------|------------|------------|
| Number of carcasses inspected, .                   | *           | 456        | 286         | *           | 120        | *          | 2,497      |
| Number of carcasses seized wholly—                 |             |            |             |             |            |            |            |
| (1) For tuberculosis, . .                          | 39          | 0          | 59          | 64          | 3          | 0          | 13         |
| (2) For other diseases, . .                        | 8           | 1          | 76          | 4           | 4          | 52         | 12         |
| Number of carcasses of which portions were seized— |             |            |             |             |            |            |            |
| (1) For tuberculosis, . .                          | 116         | 4          | 34          | 127         | 2          | 0          | 45         |
| (2) For other diseases, . .                        | 73          | 1          | 77          | 38          | 3          | 12         | 29         |
| Total weight of meat seized, .                     | 61,521 lbs. | 1,870 lbs. | 90,241 lbs. | 73,715 lbs. | 1,273 lbs. | 2,315 lbs. | 4,859 lbs. |

\* Accurate figures as to the number of oxen, heifer, and sheep carcasses inspected are not available. With five slaughter-houses to visit, it is impossible, as a routine, to inspect every carcass in detail. Every ox, heifer, or sheep carcass showing evidence of disease is, of course, thoroughly examined, and all carcasses of bulls, cows, calves, and pigs are inspected.

Particulars are given below regarding the carcasses seized wholly for diseases other than tuberculosis :—

| Disease.                                                                                 | Oxen. | Bulls. | Cows. | Heifers. | Calves. | Sheep. | Pigs. |
|------------------------------------------------------------------------------------------|-------|--------|-------|----------|---------|--------|-------|
| Septic Mammitis, . . . .                                                                 | ...   | ...    | 7     | ...      | ...     | ...    | ...   |
| Septic Metritis, . . . .                                                                 | ...   | ...    | 17    | ...      | ...     | ...    | ...   |
| Septic Pericarditis, . . . .                                                             | 1     | ...    | 2     | ...      | 1       | ...    | 1     |
| Septic Peritonitis, . . . .                                                              | 1     | ...    | 2     | ...      | ...     | ...    | 3     |
| Septic Pneumonia, . . . .                                                                | 1     | ...    | 4     | ...      | ...     | 1      | ...   |
| Dropsy, . . . . .                                                                        | ...   | ...    | 7     | 1        | ...     | 10     | 1     |
| Nephritis, . . . . .                                                                     | ...   | ...    | 1     | ...      | ...     | ...    | ...   |
| Sarcoma, . . . . .                                                                       | ...   | ...    | 1     | ...      | ...     | ...    | ...   |
| John's Disease, . . . . .                                                                | ...   | ...    | 1     | ...      | ...     | ...    | ...   |
| Swine Erysipelas, . . . .                                                                | ...   | ...    | ...   | ...      | ...     | ...    | 1     |
| Rickets, . . . . .                                                                       | ...   | ...    | ...   | ...      | ...     | ...    | 2     |
| Jaundice, . . . . .                                                                      | ...   | 1      | 1     | ...      | ...     | ...    | ...   |
| Joint Ill, . . . . .                                                                     | ...   | ...    | ...   | ...      | 1       | ...    | ...   |
| Pyæmia, . . . . .                                                                        | 1     | ...    | 3     | ...      | ...     | ...    | ...   |
| Decomposition, . . . . .                                                                 | 1     | ...    | 2     | 2        | ...     | 34     | 1     |
| Emaciation, . . . . .                                                                    | 1     | ...    | 3     | ...      | ...     | 1      | ...   |
| Extensive bruising, . . . .                                                              | ...   | ...    | 8     | ...      | ...     | 5      | ...   |
| Fevered or badly bled, . . .                                                             | 1     | ...    | 11    | 1        | ...     | ...    | ...   |
| Abnormal odour and various inflammatory conditions, &c., chiefly in emergency slaughter. | 1     | ...    | 6     | ...      | 2       | 1      | 3     |
| Total, . . . . .                                                                         | 8     | 1      | 76    | 4        | 4       | 52     | 12    |

There are two large wholesale meat marts in Aberdeen to which carcasses are consigned from County districts. As a routine all such carcasses are inspected by the Meat Inspector in Aberdeen, and the following table gives the number of carcasses and the weight of meat seized as unfit for human food in these marts:—

|                                                    | Oxen.           | Bulls.      | Cows           | Heifrs.       | Calves.    | Sheep.        | Pigs.         |
|----------------------------------------------------|-----------------|-------------|----------------|---------------|------------|---------------|---------------|
| Number of carcasses seized wholly—                 |                 |             |                |               |            |               |               |
| (1) For tuberculosis, . . .                        | 6               | 0           | 4              | 3             | 0          | 0             | 2             |
| (2) For other diseases, . . .                      | 15              | 1           | 19             | 8             | 1          | 55            | 12            |
| Number of carcasses of which portions were seized— |                 |             |                |               |            |               |               |
| (1) For tuberculosis, . . .                        | 3               | 0           | 5              | 6             | 0          | 0             | 4             |
| (2) For other diseases, . . .                      | 61              | 2           | 46             | 37            | 5          | 164           | 9             |
| Total weight of meat seized, .                     | 15,741*<br>lbs. | 560<br>lbs. | 15,689<br>lbs. | 6,048<br>lbs. | 91<br>lbs. | 3,263<br>lbs. | 2,246<br>lbs. |

\* This figure includes 2,576 lbs. frozen beef.

### Control of other Foods.

In addition to the control of milk and milk food products, and of meat, the Health Department continues an extensive supervision of other foods. Thus, the Fish Market is visited daily, and the quantity of fish destroyed as unfit for human food in 1926 was 17,350 lbs., as compared with 42,349 lbs. in 1925. The sale of fruit and vegetables, both wholesale and retail, is also under extensive supervision. So also considerable attention continues to be paid to the inspection of tinned foods, and all factories where such articles are prepared are regularly visited. Provision curing yards, wholesale warehouses, and shops are also subject to routine visitation.

### LABORATORY SERVICES.

The following statement gives in detail the number and results of examinations for the City of Aberdeen (including City Hospital) carried out in the City Hospital Laboratories during the year 1926:—

#### LABORATORY EXAMINATIONS FOR CITY OF ABERDEEN.

|                                  | Positive. | Negative. | Total. | Grand Total. |
|----------------------------------|-----------|-----------|--------|--------------|
| <i>Diphtheria</i> , . . . . .    | 723       | 10,264    | 10,987 | 10,987       |
| <i>Tuberculosis</i> —            |           |           |        |              |
| Sputum, . . . . .                | 879       | 2,756     | 3,635  |              |
| Pus, . . . . .                   | 6         | 60        | 66     |              |
| Urines, . . . . .                | 3         | 75        | 78     |              |
| Fæces, . . . . .                 | 5         | 35        | 40     |              |
| Cerebro-spinal fluids, . . . . . | 5         | 9         | 14     |              |
|                                  |           |           | —      | 3,833        |
| <i>Typhoid</i> —                 |           |           |        |              |
| Widals, . . . . .                | 8         | 94        | 102    |              |
| Blood Cultures, . . . . .        | 1         | 2         | 3      |              |
| Fæces, . . . . .                 | 2         | 120       | 122    |              |
| Urines, . . . . .                | 7         | 80        | 87     |              |
|                                  |           |           | —      | 314          |
| <i>Carry forward</i> , . . . . . |           |           |        | 15,134       |

|                                                                       | Positive. | Negative. | Total. | Grand Total. |
|-----------------------------------------------------------------------|-----------|-----------|--------|--------------|
| <i>Paratyphoid A and B—</i>                                           |           |           |        | 15,134       |
| <i>Brought forward,</i>                                               |           |           |        |              |
| Widals, . . . . .                                                     | 2         | 202       | 204    |              |
| Fæces, . . . . .                                                      | 0         | 1         | 1      |              |
|                                                                       |           |           | —      | 205          |
| <i>Bacillary Dysentery—</i>                                           |           |           |        |              |
| Agglutinations, . . . . .                                             | 55        | 81        | 136    |              |
| Fæces, . . . . .                                                      | 51        | 648       | 699    |              |
|                                                                       |           |           | —      | 835          |
| <i>Food Poisoning—</i>                                                |           |           |        |              |
| Fæces, . . . . .                                                      | 3         | 3         | 6      |              |
| Urines, . . . . .                                                     | 2         | 3         | 5      |              |
| Vomit, . . . . .                                                      | 0         | 4         | 4      |              |
|                                                                       |           |           | —      | 15           |
| <i>Venereal Diseases—</i>                                             |           |           |        |              |
| Wassermann Tests, . . . . .                                           | 164       | 575       | 739    |              |
| Gonococcal Examinations, . . . . .                                    | 146       | 1,371     | 1,517  |              |
| Spirochete Examinations, . . . . .                                    | 3         | 1         | 4      |              |
|                                                                       |           |           | —      | 2,260        |
| <i>Epidemic Cerebro-Spinal Meningitis—</i>                            |           |           |        |              |
| Cerebro-Spinal Fluids, . . . . .                                      | 10        | 1         | 11     | 11           |
| <i>General—</i>                                                       |           |           |        |              |
| Blood Counts, . . . . .                                               |           |           | 14     |              |
| Blood Cultures, . . . . .                                             |           |           | 126    |              |
| Cerebro-Spinal Fluids, . . . . .                                      |           |           | 28     |              |
| Differential Cell Counts, . . . . .                                   |           |           | 41     |              |
| Fæces for Blood, . . . . .                                            |           |           | 6      |              |
| Fæces for Organisms, . . . . .                                        |           |           | 30     |              |
| Fæces for Protozoal Examination, . . . . .                            |           |           | 35     |              |
| Malaria, . . . . .                                                    |           |           | 13     |              |
| Ophthalmia Neonatorum, . . . . .                                      |           |           | 52     |              |
| Pus for Organisms, . . . . .                                          |           |           | 151    |              |
| Sputum for Organisms, . . . . .                                       |           |           | 181    |              |
| Throat and Nose Swabs for Organisms, . . . . .                        |           |           | 244    |              |
| Throat and Nose Swabs for <i>S. hæmolyticus</i> , . . . . .           |           |           | 259    |              |
| Uriues for Bacteriological Examination, . . . . .                     |           |           | 163    |              |
| Urines for General Pathological Examination, . . . . .                |           |           | 220    |              |
| Vaccines, . . . . .                                                   |           |           | 136    |              |
| Miscellaneous, . . . . .                                              |           |           | 9      |              |
|                                                                       |           |           | —      | 1,707        |
| <i>Biochemical Estimation—</i>                                        |           |           |        |              |
| Blood Sugar, . . . . .                                                |           |           | 30     |              |
| Urinary Sugar, . . . . .                                              |           |           | 19     |              |
| Blood Urea, . . . . .                                                 |           |           | 11     |              |
| Urine Urea, . . . . .                                                 |           |           | 15     |              |
| Gastric Contents, . . . . .                                           |           |           | 9      |              |
| Miscellaneous, . . . . .                                              |           |           | 3      |              |
|                                                                       |           |           | —      | 87           |
| <i>Water, Food, and Drug Samples—</i>                                 |           |           |        |              |
| Bacteriological Examination of Waters, . . . . .                      |           |           | 219    |              |
| Chemical Examination of Waters, . . . . .                             |           |           | 9      |              |
| Bacteriological Examination of Milks, . . . . .                       |           |           | 271    |              |
| All samples analysed under the Sale of Food and Drugs Acts, . . . . . |           |           | 1,691  |              |
|                                                                       |           |           | —      | 2,190        |
| <i>Carry forward,</i>                                                 |           |           |        | 22,444       |

|                                                                  |                        |   |               |
|------------------------------------------------------------------|------------------------|---|---------------|
|                                                                  | <i>Brought forward</i> |   | Grand Total.  |
|                                                                  |                        |   | 22,444        |
| <i>Animal Experiments—</i>                                       |                        |   |               |
| Guinea-pigs inoculated with milk deposits for tubercle bacilli,  | 105                    |   |               |
| Guinea-pigs inoculated with human material for tubercle bacilli, | 7                      |   |               |
| Guinea-pigs inoculated with extract from shaving brushes         |                        |   |               |
| for B. Anthracis,                                                | 5                      |   |               |
| Guinea-pigs used for diphtheria toxin,                           | 26                     |   |               |
| Guinea-pigs used for diphtheria virulence test,                  | 9                      |   |               |
| Guinea-pigs used for sodium ricinoleate mixture,                 | 66                     |   |               |
| Mice used in typing pneumococci,                                 | 69                     |   |               |
|                                                                  |                        | — | 287           |
|                                                                  |                        |   | 22,731        |
|                                                                  |                        |   | <u>22,731</u> |

In addition to the above examinations for the City of Aberdeen, 2,295 examinations were carried out for the North-Eastern Counties within the Laboratory Services Scheme.



## BIRTHS.

*(Table XXII.)*

The total number of births during the year 1926, corrected for transfers, was 3,406, equivalent to a rate of 21·5 per 1,000 of the population, as against a rate of 21·4 per 1,000 in 1925. The average rate for the 1921-1925 quinquennium was 23·6.

*Proportion of Males to Females.*—The number of male infants to every 100 female infants, corrected for transfers, during 1926, was 100·9, as compared with 100·6 for 1925.

*Illegitimate Births.*—In 1926, the number of illegitimate births, after correction for transfers, was 240, and amounted to 7·0 per cent. of the total births. The average rate for the 1921-1925 quinquennium was 8·2.

*Births in Proportion to Women of Child-bearing Ages (15-45 years).*—When the births are compared with the number of women of fertile ages in the population, it is found that the number of legitimate births among married women in 1926 amounted to 184 per 1,000 of such women at the ages specified. In 1925, the rate was 183.

Similarly stated, the illegitimate birth-rate among unmarried and widowed women of the fertile ages was 10·0 per 1,000 in 1926. In 1925, it was 10·5.

*Still-births.*—In 1926, the number of still-births was 144 and amounted to 40·5 per 1,000 registered births. The average rate for the preceding quinquennium was 41·7.

## MARRIAGES.

*(Tables XXII. and XXIII.)*

During the year 1926, there were 1,403 marriages within the City, equivalent to a rate of 8·9 per 1,000 of the population, as against a rate of 9·6 in 1925. The average rate for the 1921-1925 quinquennium was 9·9.

*Residence.*—In 1926, 999 of the males married were ordinarily resident in Aberdeen, the remaining 404 coming from outwith the City. As regards the females, 1,084 were ordinarily resident in the City, and 319 lived outside the City.

*Status.*—In the 1,403 marriages in 1926, the persons married included 105 widowers and 68 widows.

*Percentages of Marriages.*—Reference to the figures of the percentages of marriages of men employed in different occupations, as set forth in Table XXIII., shows that the percentages of marriages in 1926 is greatest in the professional classes.

As regards women, the chance of marriage would appear to be greatest among domestic servants, who provide the highest percentage of marriages.

TABLE XXII.—ABERDEEN.—MARRIAGE, BIRTH, AND DEATH-RATES—1856 TO 1926.  
Per 1,000 of population.

| Year.             | Population. | Marriages. |                               | Births.† |                               |                                       | Deaths.‡ |                               |                       | Excess of Birth-Rate over Death-Rate. |
|-------------------|-------------|------------|-------------------------------|----------|-------------------------------|---------------------------------------|----------|-------------------------------|-----------------------|---------------------------------------|
|                   |             | Number.    | Rate per 1,000 of Population. | Number.  | Rate per 1,000 of Population. | Illegit. Births per 100 Total Births. | Number.  | Rate per 1,000 of Population. | Average Age at Death. |                                       |
| 1926              | 158,723     | 1,403      | 8·9                           | 3,406    | 21·5                          | 7·0                                   | 2,115    | 13·3                          | 48·0                  | 8·2                                   |
| 1925              | 158,144     | 1,519      | 9·6                           | 3,390    | 21·4                          | 7·4                                   | 2,170    | 13·7                          | 46·5                  | 7·7                                   |
| 1924              | 157,764     | 1,459      | 9·2                           | 3,437    | 21·8                          | 7·2                                   | 2,302    | 14·6                          | 44·7                  | 7·2                                   |
| 1923              | 159,498     | 1,564      | 9·8                           | 3,766    | 23·6                          | 7·7                                   | 2,157    | 13·5                          | 45·1                  | 10·1                                  |
| 1922              | 160,308     | 1,616      | 10·1                          | 3,969    | 24·8                          | 9·7                                   | 2,595    | 16·2                          | 41·5                  | 8·6                                   |
| 1921              | 159,915     | 1,751      | 10·9                          | 4,254    | 26·6                          | 9·2                                   | 2,292    | 14·3                          | 44·1                  | 12·3                                  |
| Mean of 1921-1925 | 159,126     | 1,582      | 9·9                           | 3,763    | 23·6                          | 8·2                                   | 2,303    | 14·5                          | 44·4                  | 9·2                                   |
| 1920              | 160,466     | 2,122      | 13·2                          | 4,868    | 30·3                          | 9·3                                   | 2,398    | 14·9                          | 40·1                  | 15·4                                  |
| 1919              | 161,017     | 2,235      | 13·9                          | 3,379    | 21·0                          | 10·6                                  | 2,469    | 15·3                          | 43·4                  | 5·7                                   |
| 1918              | 161,568     | 1,626      | 10·1                          | 2,721    | 16·8                          | 11·4                                  | 2,573    | 15·9                          | 40·6                  | 0·9                                   |
| 1917              | 162,119     | 1,341      | 8·3                           | 2,880    | 17·8                          | 11·8                                  | 2,387    | 14·7                          | 41·2                  | 3·1                                   |
| 1916              | 162,670     | 1,446      | 8·9                           | 3,546    | 21·8                          | 10·1                                  | 2,367    | 14·6                          | 43·3                  | 7·2                                   |
| Mean of 1916-1920 | 161,568     | 1,754      | 10·9                          | 3,479    | 21·5                          | 10·6                                  | 2,439    | 15·1                          | 41·7                  | 6·5                                   |
| 1911-1915         | 164,324     | 1,489      | 9·1                           | 3,959    | 24·1                          | 10·2                                  | 2,752    | 16·8                          | 38·1                  | 7·4                                   |
| 1906-1910         | 163,620     | 1,360      | 8·3                           | 4,505    | 27·5                          | 9·7                                   | 2,512    | 15·4                          | 37·6                  | 12·2                                  |
| 1901-1905         | 158,082     | 1,428      | 9·0                           | 4,872    | 30·8                          | 8·5                                   | 2,763    | 17·5                          | 34·9                  | 13·3                                  |
| 1896-1900         | 145,740     | 1,356      | 9·3                           | 4,636    | 31·8                          | 8·3                                   | 2,644    | 18·1                          | 33·3                  | 13·7                                  |
| 1891-1895         | 131,627     | 1,099      | 8·4                           | 4,114    | 31·3                          | 9·8                                   | 2,539    | 19·3                          | 32·9                  | 12·0                                  |
| 1886-1890         | 117,587     | 911        | 7·8                           | 3,827    | 32·5                          | 10·4                                  | 2,370    | 20·2                          | ...                   | 12·3                                  |
| 1881-1885         | 108,959     | 848        | 7·8                           | 3,712    | 34·1                          | 10·6                                  | 2,159    | 19·8                          | ...                   | 14·3                                  |
| 1876-1880         | 100,419     | 788        | 7·9                           | 3,480    | 34·7                          | 10·9                                  | 2,100    | 20·9                          | ...                   | 13·8                                  |
| 1871-1875         | 91,941      | 705        | 7·7                           | 3,169    | 34·5                          | 12·1                                  | 2,063    | 22·4                          | ...                   | 12·1                                  |
| 1866-1870         | 84,234      | 684        | 8·1                           | 3,010    | 35·7                          | 12·9                                  | 1,978    | 23·5                          | ...                   | 12·2                                  |
| 1861-1865         | 77,040      | 624        | 8·1                           | 2,663    | 34·6                          | ...                                   | 1,915    | 24·9                          | ...                   | 9·7                                   |
| 1856-1860         | 73,458      | 524        | 7·1                           | 2,397    | 32·6                          | ...                                   | 1,772    | 24·1                          | ...                   | 8·5                                   |

† Corrected for transferred births for 1911 and subsequent years.

‡ Corrected for transferred deaths for 1904 and subsequent years.

The factors determining the chance of marriage in the various occupation groups are obviously very complex, but information concerning such factors as age distribution and social circumstances in the various occupation groups is too meagre to permit of detailed analysis.

TABLE XXIII.—ABERDEEN.—PERCENTAGE OF MARRIAGES OF PERSONS EMPLOYED IN DIFFERENT OCCUPATIONS.

A. MEN.

| Occupation.                | No. employed in Aberdeen (Census 1921). | No. of Marriages Registered in Aberdeen. |      |      |      |      | Percentage to No. employed. |      |      |      |      |
|----------------------------|-----------------------------------------|------------------------------------------|------|------|------|------|-----------------------------|------|------|------|------|
|                            |                                         | 1926                                     | 1925 | 1924 | 1923 | 1922 | 1926                        | 1925 | 1924 | 1923 | 1922 |
| (1) Labouring and Artisan, | 36,661                                  | 1024                                     | 1023 | 1001 | 1113 | 1110 | 2·8                         | 2·8  | 2·7  | 3·0  | 3·0  |
| (2) Commercial, . . .      | 8,522                                   | 234                                      | 330  | 274  | 286  | 334  | 2·7                         | 3·9  | 3·2  | 3·4  | 3·9  |
| (3) Professional, . . .    | 4,516                                   | 134                                      | 164  | 183  | 165  | 170  | 3·0                         | 3·6  | 4·1  | 3·6  | 3·8  |

B. WOMEN.

| Occupation.                                                                                           | No. employed in Aberdeen (Census 1921).* | No. of Marriages Registered in Aberdeen. |      |      |      |      | Percentage to No. employed. |      |      |      |      |
|-------------------------------------------------------------------------------------------------------|------------------------------------------|------------------------------------------|------|------|------|------|-----------------------------|------|------|------|------|
|                                                                                                       |                                          | 1926                                     | 1925 | 1924 | 1923 | 1922 | 1926                        | 1925 | 1924 | 1923 | 1922 |
| (1) Domestic Servants (including Waitresses and Laundry Workers)                                      | 4200                                     | 332                                      | 318  | 323  | 326  | 374  | 7·9                         | 7·6  | 7·7  | 7·8  | 8·9  |
| (2) Workers in Workshops and Factories (excluding Dressmakers, Milliners, and Laundry Workers), . . . | 7303                                     | 451                                      | 487  | 476  | 517  | 466  | 6·2                         | 6·7  | 6·5  | 7·1  | 6·4  |
| (3) Saleswomen (including Dealers), . . . . .                                                         | 2710                                     | 176                                      | 190  | 129  | 158  | 158  | 6·5                         | 7·0  | 4·8  | 5·8  | 5·8  |
| (4) Teachers and Nurses, .                                                                            | 1797                                     | 75                                       | 94   | 96   | 77   | 100  | 4·2                         | 5·2  | 5·3  | 4·3  | 5·6  |
| (5) Clerks and Typists, .                                                                             | 3144                                     | 126                                      | 135  | 115  | 139  | 121  | 4·0                         | 4·3  | 3·7  | 4·4  | 3·8  |
| (6) Dressmakers and Milliners, . . . . .                                                              | 1613                                     | 51                                       | 44   | 49   | 61   | 79   | 3·2                         | 2·7  | 3·0  | 3·8  | 4·9  |
| (7) Other Occupations, .                                                                              | 2667                                     | 19                                       | 23   | 33   | 38   | 30   | 0·7                         | 0·9  | 1·2  | 1·4  | 1·1  |
| (8) No stated Occupation,                                                                             | 16,600                                   | 173                                      | 228  | 238  | 248  | 288  | 1·0                         | 1·4  | 1·4  | 1·5  | 1·7  |

\* Excluding Married Women.

## DEATHS.

*(Table XXII.)*

The total number of deaths during 1926, corrected for transfers, was 2,115, equivalent to a death-rate of 13·3 per 1,000 of the population. For the quinquennium 1921-1925, the average annual number of deaths was 2,303, with a rate of 14·5.

The death-rate of 13·3 per 1,000 of population for 1926 is the lowest Aberdeen death-rate yet recorded. In 1925, the death-rate was 13·7. At the commencement of civil registration, about 70 years ago, the death-rate in Aberdeen was about 24 to 25, so that the rate at the present time is slightly more than half of what it was in these earlier times.

*The Average Age at Death* of all persons dying during 1926 was 48·0 years. In the 1921-1925 quinquennium, it was 44·4 years.

*Excess of Birth-Rate over Death-Rate.*—In Table XXII. will be found a column giving the excess of the birth-rate over the death-rate since the commencement of registration. The excess in 1926 was 8·2. For the quinquennium 1921-1925, the excess was 9·2. The usual excess of birth-rate over death-rate for many years prior to 1911 was about 11 to 14.

## ANALYSIS OF THE DEATH-RATE.

*Mortality in Relation to Age and Causes (Tables XVIII., XXIV., and XXV.)*

*Infant Mortality.*—This is dealt with in detail in the section of this Report relating to Maternity and Child Welfare Services.

*Mortality at Pre-School Age-Period (1 to 5 years), excluding Infant Period (Tables XVIII., XXIV., and XXV.)*—The number of deaths at this age-period was 105, equivalent to a death-rate of 9·9 per 1,000 of the population at this age, as against 143 deaths in the preceding year, with an equivalent death-rate of 13·6. As will be seen from Table XVIII., the lowering of the mortality is mainly due to the diminution of the common zymotics.

*Mortality at School Age-Period (5 to 15 years) (Tables XXIV. and XXV.)*—The deaths at this age-period amounted to 65, or 2·1 per 1,000 of population at this age, as compared with an average rate of 2·4 for the preceding decennium.

*Mortality at Adolescent Age-Period (15 to 25 years) (Tables XXIV. and XXV.)*—The deaths at this age-period were 75, or 2·4 per 1,000 of the population, and was very slightly higher than the lowest death-rate recorded at this age-period, namely, 2·3 in 1925. The average mortality-rate for the preceding ten years was 3·4 per 1,000 of the population.

TABLE XXIV.—ABERDEEN.—MORTALITY FROM ALL CAUSES AT VARIOUS AGE-PERIODS \*  
(per 1,000 of population at each age).

| Year.                              | INFANTILE<br>MORTALITY.<br>Deaths of<br>Infants<br>under 1 year<br>per 1,000<br>Births. | AGE PERIOD.                           |                                    |                                            |                                              |                                             |                                                      | All Ages. |
|------------------------------------|-----------------------------------------------------------------------------------------|---------------------------------------|------------------------------------|--------------------------------------------|----------------------------------------------|---------------------------------------------|------------------------------------------------------|-----------|
|                                    |                                                                                         | 0—5 years.<br>(Pre-School<br>Period.) | 5—15 years.<br>(School<br>Period.) | 15—25<br>years.<br>(Adolescent<br>Period.) | 25—45<br>years.<br>(Early Mature<br>Period.) | 45—65<br>years.<br>(Late Mature<br>Period.) | 65 years and<br>upwards.<br>(Post-mature<br>Period.) |           |
| 1926 . . .                         | 96                                                                                      | 30·3                                  | 2·1                                | 2·4                                        | 4·6                                          | 15·9                                        | 89·9                                                 | 13·3      |
| 1925 . . .                         | 109                                                                                     | 35·9                                  | 1·7                                | 2·3                                        | 5·8                                          | 14·5                                        | 88·9                                                 | 13·7      |
| 1924 . . .                         | 122                                                                                     | 44·2                                  | 1·5                                | 2·6                                        | 4·8                                          | 15·4                                        | 91·7                                                 | 14·6      |
| 1923 . . .                         | 104                                                                                     | 38·1                                  | 1·3                                | 2·8                                        | 4·9                                          | 15·6                                        | 82·7                                                 | 13·5      |
| 1922 . . .                         | 133                                                                                     | 56·1                                  | 2·0                                | 2·8                                        | 5·9                                          | 17·4                                        | 87·4                                                 | 16·2      |
| 1921 . . .                         | 108                                                                                     | 37·5                                  | 2·4                                | 3·6                                        | 5·9                                          | 16·9                                        | 82·2                                                 | 14·3      |
| Mean of 1921-1925<br>(Five years). | 115                                                                                     | 42·4                                  | 1·8                                | 2·8                                        | 5·5                                          | 16·0                                        | 86·6                                                 | 14·5      |
| 1920 . . .                         | 121                                                                                     | 49·6                                  | 2·2                                | 3·8                                        | 6·7                                          | 16·1                                        | 73·6                                                 | 14·9      |
| 1919 . . .                         | 118                                                                                     | 36·6                                  | 3·2                                | 4·4                                        | 6·7                                          | 17·2                                        | 91·7                                                 | 15·3      |
| 1918 . . .                         | 143                                                                                     | 41·9                                  | 3·6                                | 5·4                                        | 7·8                                          | 17·3                                        | 83·8                                                 | 15·9      |
| 1917 . . .                         | 139                                                                                     | 41·6                                  | 2·9                                | 3·2                                        | 6·2                                          | 17·5                                        | 80·6                                                 | 14·7      |
| 1916 . . .                         | 112                                                                                     | 55·1                                  | 2·8                                | 3·4                                        | 6·4                                          | 18·9                                        | 84·1                                                 | 14·6      |
| Mean of 1916-1920<br>(Five years). | 127                                                                                     | 41·0                                  | 2·9                                | 4·0                                        | 6·8                                          | 17·4                                        | 82·8                                                 | 15·1      |
| 1911-1915 .                        | 143                                                                                     | 49·7                                  | 4·0                                | 4·1                                        | 6·7                                          | 20·0                                        | 86·5                                                 | 16·8      |
| 1906-1910 .                        | 128                                                                                     | 42·5                                  | 2·9                                | 3·5                                        | 7·0                                          | 19·5                                        | 84·2                                                 | 15·4      |
| 1901-1905 .                        | 143                                                                                     | 52·2                                  | 3·1                                | 4·6                                        | 7·4                                          | 21·3                                        | 83·3                                                 | 17·1      |
| 1896-1900 .                        | 144                                                                                     | 54·2                                  | 3·4                                | 5·0                                        | 9·2                                          | 22·2                                        | 81·6                                                 | 18·1      |
| 1891-1895 .                        | 147                                                                                     | 57·5                                  | 4·5                                | 5·8                                        | 9·3                                          | 22·7                                        | 86·5                                                 | 19·3      |
| 1886-1890 .                        | 140                                                                                     | 52·9                                  | 4·8                                | 7·0                                        | 10·5                                         | 22·9                                        | 88·1                                                 | 20·2      |
| 1881-1885 .                        | 126                                                                                     | 50·9                                  | 5·4                                | 6·4                                        | 10·1                                         | 23·8                                        | 86·3                                                 | 19·8      |
| 1876-1880 .                        | 129                                                                                     | 53·1                                  | 6·2                                | 7·7                                        | 11·3                                         | 22·1                                        | 86·6                                                 | 20·9      |
| 1871-1875 .                        | 133                                                                                     | 57·5                                  | 7·7                                | 8·2                                        | 12·0                                         | 22·6                                        | 91·5                                                 | 22·4      |
| 1866-1870 .                        | 133                                                                                     | 68·0                                  | 7·2                                | 8·9                                        | 12·4                                         | 22·2                                        | 91·2                                                 | 23·5      |
| 1861-1865 .                        | 130                                                                                     | 68·9                                  | 8·1                                | 10·5                                       | 13·4                                         | 24·7                                        | 98·7                                                 | 24·9      |
| 1856-1860 .                        | 126                                                                                     | 67·8                                  | 9·3                                | 9·8                                        | 12·6                                         | 21·8                                        | 97·5                                                 | 24·1      |

\* Corrected for transferred deaths in 1904 and subsequent years.

TABLE XXV.—ABERDEEN.—MORTALITY AT VARIOUS AGE-PERIODS FROM VARIOUS CAUSES.  
(Corrected for transferred deaths.)

| AGE.                           | ALL CAUSES. | Zymotic Diseases. |           |         | Tuberculous Diseases. |                    | Respiratory Diseases. |             |                    | Diseases of Circulatory System. | Diseases of Genito-Urinary System. | Nervous Diseases.                            |              | Dis. of Digest. Syst. incl. Diarrhea. | Malignant Diseases. | Developmental Diseases (ex. old age). | Accident and Violence. | Debility, Atrophy, Inanition. |                      | Miscellaneous. |
|--------------------------------|-------------|-------------------|-----------|---------|-----------------------|--------------------|-----------------------|-------------|--------------------|---------------------------------|------------------------------------|----------------------------------------------|--------------|---------------------------------------|---------------------|---------------------------------------|------------------------|-------------------------------|----------------------|----------------|
|                                |             | Ordinary.         | Venereal. | Septic. | Respiratory.          | Other Tuberculous. | Pneumonia.            | Bronchitis. | Other Respiratory. |                                 |                                    | Cereb. Hæmo., Thrombosis, Embolism, & Hemip. | Convulsions. |                                       |                     |                                       |                        | Other Nervous.                | Under age of 1 year. |                |
| A.—NUMBER OF DEATHS—YEAR 1926. |             |                   |           |         |                       |                    |                       |             |                    |                                 |                                    |                                              |              |                                       |                     |                                       |                        |                               |                      |                |
| Under 1 year,                  | 328         | 22                | 4         | 1       | 0                     | 15                 | 39                    | 19          | 5                  | 1                               | 0                                  | 0                                            | 19           | 9                                     | 43                  | 0                                     | 91                     | 5                             | 43                   | 12             |
| 1—5 years,                     | 105         | 22                | 0         | 2       | 2                     | 22                 | 22                    | 6           | 1                  | 0                               | 2                                  | 0                                            | 2            | 5                                     | 8                   | 1                                     | 1                      | 4                             | ...                  | 5              |
| 5—15 „                         | 65          | 21                | 0         | 1       | 3                     | 9                  | 2                     | 2           | 0                  | 5                               | 0                                  | 0                                            | 0            | 2                                     | 5                   | 0                                     | 0                      | 7                             | ...                  | 8              |
| 15—25 „                        | 75          | 1                 | 0         | 1       | 17                    | 5                  | 7                     | 0           | 1                  | 5                               | 1                                  | 2                                            | 0            | 5                                     | 3                   | 0                                     | 0                      | 13                            | ...                  | 14             |
| 25—45 „                        | 198         | 8                 | 2         | 2       | 58                    | 4                  | 15                    | 4           | 1                  | 18                              | 5                                  | 2                                            | 0            | 7                                     | 14                  | 21                                    | 0                      | 13                            | ...                  | 24             |
| 45—65 „                        | 465         | 10                | 2         | 2       | 32                    | 5                  | 14                    | 14          | 4                  | 86                              | 37                                 | 58                                           | 0            | 25                                    | 40                  | 84                                    | 0                      | 21                            | ...                  | 31             |
| 65+ „                          | 879         | 15                | 1         | 1       | 7                     | 3                  | 28                    | 43          | 18                 | 217                             | 42                                 | 152                                          | 0            | 16                                    | 35                  | 105                                   | 0                      | 18                            | ...                  | 27             |
| ALL AGES,                      | 2115        | 99                | 9         | 10      | 119                   | 63                 | 127                   | 88          | 30                 | 332                             | 87                                 | 214                                          | 21           | 69                                    | 148                 | 211                                   | 92                     | 81                            | 43                   | 121            |

B.—DEATH-RATE PER 100,000 OF POPULATION AT EACH AGE—YEAR 1926.

|               |      |     |     |    |     |     |      |     |     |      |     |      |     |     |      |      |      |     |      |     |
|---------------|------|-----|-----|----|-----|-----|------|-----|-----|------|-----|------|-----|-----|------|------|------|-----|------|-----|
| Under 1 year, | 8794 | 590 | 107 | 27 | 0   | 402 | 1046 | 509 | 134 | 27   | 0   | 0    | 509 | 241 | 1153 | 0    | 2440 | 134 | 1153 | 322 |
| 1—5 years,    | 993  | 208 | 0   | 19 | 19  | 208 | 208  | 57  | 9   | 0    | 19  | 0    | 19  | 47  | 76   | 9    | 9    | 38  | ...  | 47  |
| 5—15 „        | 211  | 68  | 0   | 3  | 10  | 29  | 7    | 7   | 0   | 16   | 0   | 0    | 0   | 7   | 16   | 0    | 0    | 23  | ...  | 26  |
| 15—25 „       | 236  | 3   | 0   | 3  | 54  | 16  | 22   | 0   | 3   | 16   | 3   | 6    | 0   | 16  | 9    | 0    | 0    | 41  | ...  | 44  |
| 25—45 „       | 462  | 19  | 5   | 5  | 135 | 9   | 35   | 9   | 2   | 42   | 12  | 5    | 0   | 16  | 33   | 49   | 0    | 30  | ...  | 56  |
| 45—65 „       | 1590 | 34  | 7   | 7  | 109 | 17  | 48   | 48  | 14  | 294  | 127 | 199  | 0   | 85  | 136  | 257  | 0    | 72  | ...  | 06  |
| 65+ „         | 8990 | 153 | 10  | 10 | 72  | 31  | 286  | 440 | 184 | 2220 | 430 | 1555 | 0   | 164 | 358  | 1074 | 0    | 184 | 1545 | 276 |
| ALL AGES,     | 1333 | 62  | 6   | 7  | 75  | 40  | 80   | 55  | 19  | 209  | 55  | 135  | 13  | 44  | 93   | 133  | 58   | 51  | ...  | 77  |

C.—DEATH-RATE PER 100,000 OF POPULATION AT EACH AGE—AVERAGE FOR TEN YEARS—1916-1925.

|               |       |      |     |    |     |     |      |     |     |      |     |      |     |     |      |     |      |     |      |     |
|---------------|-------|------|-----|----|-----|-----|------|-----|-----|------|-----|------|-----|-----|------|-----|------|-----|------|-----|
| Under 1 year, | 11614 | 1056 | 321 | 59 | 48  | 187 | 1328 | 850 | 86  | 16   | 16  | 19   | 631 | 174 | 1155 | 5   | 3046 | 150 | 2162 | 305 |
| 1—5 years,    | 1673  | 657  | 3   | 5  | 38  | 210 | 286  | 58  | 14  | 5    | 13  | 2    | 59  | 42  | 99   | 6   | 16   | 116 | ...  | 47  |
| 5—15 „        | 236   | 56   | 0.3 | 1  | 17  | 40  | 22   | 2   | 3   | 13   | 6   | 1    | 1   | 15  | 20   | 1   | 3    | 20  | ...  | 16  |
| 15—25 „       | 342   | 37   | 0.3 | 2  | 111 | 22  | 22   | 2   | 4   | 26   | 7   | 1    | 0   | 22  | 20   | 7   | 1    | 26  | ...  | 33  |
| 25—45 „       | 609   | 60   | 3   | 5  | 158 | 11  | 44   | 8   | 6   | 58   | 34  | 12   | 0   | 3   | 30   | 44  | 0.4  | 39  | ...  | 59  |
| 45—65 „       | 1667  | 68   | 2   | 9  | 122 | 11  | 93   | 72  | 27  | 287  | 115 | 185  | 0   | 73  | 95   | 325 | 0    | 65  | ...  | 108 |
| 65+ „         | 8457  | 264  | 4   | 30 | 63  | 14  | 324  | 836 | 143 | 1856 | 463 | 1359 | 0   | 130 | 282  | 971 | 0    | 195 | 1242 | 281 |
| ALL AGES,     | 1478  | 133  | 9   | 7  | 98  | 37  | 108  | 90  | 20  | 188  | 62  | 120  | 19  | 45  | 84   | 131 | 73   | 54  | ...  | 75  |

*Mortality at Early-Mature Age-Period (25 to 45 years) (Tables XXIV. and XXV.).*—The number of deaths at this age-period was 198, giving a rate of 4·6 per 1,000 of the population, which is considerably lower than the average for the preceding ten years (6·1). The rate for 1926 is the lowest recorded since civil registration began.

*Mortality at Late-Mature Age-Period (45 to 65 years) (Tables XXIV. and XXV.).*—The deaths amounted to 465, with a rate of 15·9 per 1,000 of the population at this period, as compared with an average rate of 16·7 for the preceding decennium.

*Mortality at Post-Mature Age-Period (65 years and upwards) (Tables XXIV. and XXV.).*—The deaths amounted to 879, with an equivalent rate of 89·9 per 1,000 of the population, as compared with an average of 84·6 for the 1916-1925 decennium.

*Mortality at All Ages (Tables XXII., XXIV., and XXV.).*—The death-rate from all causes has already been referred to.

The percentage fall in the death-rate from the decade of 1861-1870 up to the end of 1926 is for each age-period as follows, namely:—56 for the pre-school (including the infant) period; 72 for the school period; 75 for the adolescent period; 64 for the early-mature period; 32 for the late-mature period; and 5 for the post-mature period.

During 1926, the diseases responsible for the largest number of deaths were as follows:—Diseases of the circulatory system, 332 deaths; diseases of the nervous system, 304 deaths (including 214 due to cerebral hæmorrhage); respiratory diseases, 245; malignant diseases, 211; and tuberculosis, 182, of which 119 were respiratory.

#### VARIATIONS IN MORTALITY FROM SELECTED CAUSES SINCE 1856.

The variations in the mortality from selected causes at all ages since the year 1856—the second year of civil registration—can be conveniently followed in Table. I.

*Infectious Diseases.*—These, including tuberculosis, are dealt with in greater detail in the part of the Report devoted especially to infectious diseases.

*Cancer and other Malignant Diseases.*—The cancer death-rate was 133 per 100,000 of the population in 1926, as compared with a rate of 149 in 1925. During the 1921-1925 quinquennium, the average rate was 142.

*Pneumonia.*—The death-rate from pneumonia was 80 per 100,000 of the population, as against an average of 94 during the 1921-1925 quinquennium.

*Bronchitis*, which has been an almost steadily declining cause of death since near the commencement of civil registration, gave a death-rate of 55 per 100,000 of the population, as compared with an average of 81 for the preceding quinquennium.

*Diseases of the Digestive System.*—In 1926, the death-rate was 93 per 100,000, as against an average of 81 for the 1921-1925 quinquennium.

*Diseases of the Circulatory System.*—The death-rate from these diseases was 209 per 100,000, as compared with an average of 198 for the preceding quinquennium.

---

#### STATISTICAL DATA RELATIVE TO THE VARIOUS MUNICIPAL WARDS.

Table XXVI. shows the birth-rate, infantile mortality, and death-rates in the various wards of the City during 1926. Three different types of wards are selected for comparison, namely:—(a) Rubislaw, giving data for a west-end population of the better class; (b) Torry, data for a working-class population living in modern tenements under good sanitary conditions; and (c) Greyfriars, a poor population living in somewhat dilapidated property.

The table shows that, in comparing Rubislaw and Torry from a health point of view, there is a balance in favour of Torry, particularly in respect of the much greater surplus of births over deaths. Greyfriars shows a distinctly worse record than Rubislaw and Torry, its death-rate being substantially higher. Nevertheless, the increased mortality in Greyfriars is offset by the fact that the excess of births over deaths in Greyfriars is notably higher than in either Torry or Rubislaw. All such comparisons, however, are unreliable in the absence of corrections for age and sex distribution of ward populations.

TABLE XXVI.—BIRTH-RATES AND DEATH-RATES FROM VARIOUS CAUSES—Year 1926.

(Distributed according to Wards of City.)

| Whole City.                                                 | WARD OF CITY |             |               |                |             |               |            |           |              |            |        |  |
|-------------------------------------------------------------|--------------|-------------|---------------|----------------|-------------|---------------|------------|-----------|--------------|------------|--------|--|
|                                                             | Woodside.    | St. Machar. | St. Andrew's. | St. Clement's. | Greyfriars. | St. Nicholas. | Rosemount. | Rubislaw. | Ruthrieston. | Ferryhill. | Torry. |  |
| Population (in thousands), Census 1921. . . . .             | 9.5          | 14.3        | 17.6          | 11.2           | 13.7        | 14.5          | 16.6       | 19.0      | 16.4         | 14.7       | 11.3   |  |
| Birth-Rate, per 1,000 of Population, . . . . .              | 22.0         | 19.7        | 22.6          | 28.4           | 35.5        | 26.5          | 19.7       | 11.3      | 15.1         | 16.1       | 26.9   |  |
| Infantile Mortality, per 1,000 Births, . . . . .            | 43           | 85          | 128           | 85             | 148         | 96            | 113        | 56        | 73           | 68         | 82     |  |
| Death-Rate, per 100,000 of Population—All Causes, . . . . . | 1411         | 1294        | 1347          | 1321           | 1890        | 1186          | 1229       | 1326      | 1213         | 1239       | 1265   |  |
| Zymotic Diseases—                                           |              |             |               |                |             |               |            |           |              |            |        |  |
| Ordinary, . . . . .                                         | 21           | 70          | 68            | 116            | 80          | 97            | 48         | 16        | 37           | 55         | 106    |  |
| Venereal, . . . . .                                         | 0            | 0           | 28            | 9              | 0           | 7             | 12         | 0         | 0            | 0          | 0      |  |
| Septic, . . . . .                                           | 10           | 0           | 0             | 0              | 7           | 14            | 0          | 16        | 0            | 7          | 18     |  |
| Tuberculous Diseases—                                       |              |             |               |                |             |               |            |           |              |            |        |  |
| Respiratory, . . . . .                                      | 63           | 56          | 120           | 27             | 102         | 69            | 84         | 37        | 67           | 48         | 160    |  |
| Other Tuberculous, . . . . .                                | 53           | 42          | 17            | 54             | 36          | 62            | 24         | 26        | 24           | 34         | 97     |  |
| Respiratory Diseases—                                       |              |             |               |                |             |               |            |           |              |            |        |  |
| Pneumonia, . . . . .                                        | 42           | 105         | 85            | 116            | 146         | 69            | 96         | 63        | 30           | 55         | 80     |  |
| Bronchitis, . . . . .                                       | 74           | 14          | 68            | 45             | 102         | 69            | 36         | 68        | 43           | 54         | 35     |  |
| Other Respiratory, . . . . .                                | 32           | 21          | 11            | 9              | 22          | 21            | 36         | 16        | 12           | 7          | 27     |  |
| Diseases of Circulatory System, . . . . .                   | 274          | 252         | 193           | 179            | 161         | 172           | 169        | 226       | 195          | 286        | 212    |  |
| Diseases of Genito-Urinary System, . . . . .                | 53           | 56          | 40            | 71             | 51          | 55            | 66         | 68        | 61           | 61         | 9      |  |
| Nervous Diseases—                                           |              |             |               |                |             |               |            |           |              |            |        |  |
| Cerebral Haemorrhage, &c., . . . . .                        | 200          | 119         | 114           | 71             | 124         | 117           | 102        | 211       | 159          | 156        | 88     |  |
| Convulsions, . . . . .                                      | 0            | 0           | 28            | 36             | 44          | 7             | 18         | 0         | 0            | 14         | 0      |  |
| Other Nervous, . . . . .                                    | 10           | 28          | 74            | 80             | 58          | 14            | 24         | 74        | 37           | 27         | 35     |  |
| Diseases of Digestive System, including Diarrhea, . . . . . | 63           | 98          | 102           | 107            | 183         | 48            | 96         | 74        | 67           | 95         | 97     |  |
| Malignant Diseases, . . . . .                               | 253          | 84          | 108           | 143            | 190         | 110           | 78         | 221       | 146          | 88         | 53     |  |
| Developmental Diseases (excluding old age), . . . . .       | 53           | 56          | 69            | 89             | 124         | 41            | 72         | 26        | 43           | 41         | 35     |  |
| Accidents and Violence, . . . . .                           | 42           | 42          | 40            | 53             | 88          | 55            | 69         | 16        | 55           | 82         | 27     |  |
| Other Causes, . . . . .                                     | 108          | 251         | 182           | 116            | 372         | 159           | 199        | 168       | 237          | 129        | 186    |  |

## COMPARISON BETWEEN ABERDEEN AND OTHER TOWNS.

Table XXVII. is submitted, which gives a comparison between Aberdeen and other large towns in Scotland in regard to some of the more important features of their vital statistics.

The rates for births and deaths are corrected for transfers, that is, for births or deaths transferred from the records in the place of their occurrence to the records of the place of home residence.

A further correction is applied to the death-rate from all causes. This correction is necessary to any comparison between the towns, owing to the difference in sex and age distribution.

MARRIAGES.—Table XXVII. shows that, among the principal towns, Aberdeen occupied the second highest place, with a rate of 89 per 10,000 of population. Edinburgh was first, with a rate of 90; Glasgow, Dundee, Paisley, and Greenock had marriage-rates of 83, 77, 62, and 54 respectively.

As has been pointed out in previous Reports, the marriage-rate for the larger towns is inflated beyond its proper dimensions by the inclusion of a considerable number of marriages of people whose residence is beyond the City.

BIRTHS.—In respect of births, Aberdeen came fifth in the list, with a birth-rate of 216. The town with the highest birth-rate was Greenock, with 239.

ILLEGITIMATE BIRTHS.—The percentage of illegitimate births in the total births was slightly higher in Aberdeen than in Edinburgh or Dundee, being 7·0, as against a rate of 6·9 in Edinburgh and Dundee. Stated as births per 1,000 unmarried and widowed women of child-bearing ages (15-45 years), Greenock, with 11·8 was the highest of the principal towns, Aberdeen and Glasgow coming next with 10·0. Paisley was lowest with 7·4.

DEATHS.—As regards the crude death-rate from all causes and at all ages, Aberdeen had the lowest death-rate, with 134 per 10,000 of population, Edinburgh coming next, with a rate of 135. The rates in Greenock, Paisley, Dundee, and Glasgow were 137, 142, 148, and 151 respectively. When this crude death-rate is corrected for age and sex distribution, Aberdeen had still the lowest death-rate, 134; Glasgow had the highest rate of 170; and Edinburgh, Greenock, and Paisley had rates of 137, 150, and 156 respectively.

In Table XXVII. the crude rates from the principal causes of death for the six towns are given.

In regard to *Infantile Mortality* (deaths of infants under one year per 1,000 births), Aberdeen was fourth in the list, with a rate of 96, Paisley being emphatically the highest, with a rate of 114. The town with the lowest infant mortality was Edinburgh, with a rate of 80.

TABLE XXVII.—BIRTH, DEATH, AND MARRIAGE RATES DURING THE YEAR 1926

## Six Principal Towns in Scotland.

(Corrected for transfers of births and deaths.)

|                                                                                  | Glas-<br>gow. | Edin-<br>burgh. | Dundee | Aber-<br>deen. | Paisley. | Green-<br>ock. |
|----------------------------------------------------------------------------------|---------------|-----------------|--------|----------------|----------|----------------|
| ESTIMATED POPULATION. . . . .<br>(in thousands).                                 | 1042          | 424             | 170    | 158            | 86       | 82             |
| MARRIAGE-RATE, . . . . .<br>(per 10,000 of population).                          | 83            | 90              | 77     | 89             | 62       | 54             |
| BIRTH-RATE—                                                                      |               |                 |        |                |          |                |
| A—Total Births, . . . . .<br>(per 10,000 of population).                         | 235           | 187             | 219    | 216            | 224      | 239            |
| B—Legitimate Births, . . . . .<br>(per 1,000 Married Women aged 15-45<br>years). | 196           | 168             | 194    | 184            | 197      | 201            |
| C—Illegitimate Births—                                                           |               |                 |        |                |          |                |
| (a) Per 100 total Births, . . . . .                                              | 5.9           | 6.9             | 6.9    | 7.0            | 5.2      | 5.6            |
| (b) Per 1,000 Unmarried Women and<br>Widows aged 15-45 years, . . . .            | 10.0          | 7.9             | 9.3    | 10.0           | 7.4      | 11.8           |
| DEATH-RATE—                                                                      |               |                 |        |                |          |                |
| A—All Ages<br>(per 10,000 of population).                                        |               |                 |        |                |          |                |
| (a) All Causes, . . . . .                                                        | 151           | 135             | 148    | 134            | 142      | 137            |
| Corrected for Age and Sex Distri-<br>bution, . . . . .                           | 170           | 137             | 148    | 134            | 156      | 150            |
| (b) Principal Epidemic Diseases, . .                                             | 11.2          | 4.6             | 7.9    | 6.0            | 12.5     | 7.8            |
| (c) Tuberculosis—                                                                |               |                 |        |                |          |                |
| (1) Respiratory, . . . . .                                                       | 9.0           | 8.4             | 8.1    | 7.4            | 7.4      | 9.8            |
| (2) Other, . . . . .                                                             | 3.5           | 3.0             | 3.1    | 4.0            | 2.9      | 3.4            |
| (d) Bronchitis, . . . . .                                                        | 10.0          | 7.1             | 8.6    | 5.6            | 7.4      | 8.0            |
| (e) Pneumonia, . . . . .                                                         | 19.6          | 9.4             | 12.9   | 8.0            | 15.7     | 15.0           |
| (f) Malignant Diseases, . . . . .                                                | 14.3          | 15.4            | 16.0   | 13.7           | 16.8     | 11.6           |
| (g) Diseases of Circulatory System, .                                            | 16.4          | 21.6            | 20.7   | 20.5           | 17.0     | 15.1           |
| (h) Nephritis and Bright's Disease, .                                            | 4.3           | 4.1             | 4.2    | 3.6            | 3.4      | 2.6            |
| (i) Diarrhoea and Enteritis (under 2<br>years), . . . . .                        | 3.0           | 1.2             | 2.1    | 2.1            | 2.2      | 1.7            |
| (j) Violence (excl. Suicide), . . . .                                            | 5.0           | 4.4             | 4.5    | 4.4            | 3.8      | 4.3            |
| B—Infants under One Year, . . . . .<br>(per 1,000 births).                       | 104           | 80              | 103    | 96             | 114      | 90             |
| EXCESS of BIRTH-RATE over DEATH-RATE, .                                          | 84            | 52              | 71     | 82             | 82       | 102            |

EXCESS OF BIRTH-RATE OVER DEATH-RATE.—As in the preceding year, the excess was highest in Greenock, with 102 per 10,000 of population, and lowest in Edinburgh, with 52. In Aberdeen, it was 82.

No attempt has been made to elaborate the statistics set out in this section of the Report. Without corrections for age and sex and standardisation, a comparison of disease-rates and death-rates in the various towns is futile. Even when so standardised, a false value is attached to such a comparison, since it ignores natural variation in the local prevalence of disease, and tends to suggest that disease prevalence is dependent on immediate environmental conditions to an extent that is not warranted by existing knowledge.

J. PARLANE KINLOCH.

*July, 1927.*



